

AT GUELPH

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AT A GLANCE

Call for nominations. Board of Governors is calling for nominations for the one staff/alumnus seat on the board, to serve a three-year term. Candidates must be full-time permanent non-teaching employees and graduates of the University. Nominations can be made by any full-time permanent non-teaching staff member. Deadline for nominations is May 30 at 4 p.m. to the Board Secretariat on Level 4 of the University Centre.

Keep us informed! If you are organizing an event on campus, remember to send information well in advance to appear in the "Calendar" and "Notices" sections of *At Guelph* and on our *News Watch* Web site. Mail to *At Guelph*, Level 4, University Centre, fax to 824-7962 or send e-mail to bchance@exec.admin.uoguelph.ca. *At Guelph* will publish four more issues this semester — June 4 and 18 and July 2 and 16. Copy deadline is one week before publication.

On the election trail. Political studies professor William Christian offers his take on how the federal party leaders are faring in Election '97... *page 4*

It's soy good! A soy custard dessert has netted two students top prize in U of G's first Project SOY contest... *page 5*



Prof. Margaret Priest



Prof. Donna Palmateer Pennee

Photo - Martin Schwalbe

OCUFA says two thumbs up!!

Two capture Ontario's top teaching awards

by Barbara Chance

The College of Arts is on a roll.

Two of the college's faculty have won 1996 teaching awards from the Ontario Confederation of University Faculty Associations (OCUFA) — Prof. Margaret Priest, Fine Art, and Prof. Donna Palmateer Pennee, English. Their win comes just a year after their College of Arts colleague Prof. Alan Filewod, Drama, was honored by the confederation.

College of Arts dean Carole Stewart says everyone in the college is "absolutely delighted" with Priest and Pennee's awards. "I'm pleased that they have re-

ceived public recognition for a standard of excellence that is already well known in their departments," says Stewart. "And I think the fact that three members of the college have won these awards in two years is a good indication of how importantly we take teaching in the college as a whole."

President Mordechai Rozanski says it's a tribute to both the college and the University that Guelph faculty received two of the nine awards presented by OCUFA this year.

"It perpetuates what is fast becoming another tradition for Guelph and effectively throws down the gauntlet for other colleges!" he says. "We are immensely proud of our two awardees, who have worked hard on behalf of their students." The president attended the May 16 ceremony in Toronto where Priest and Pennee received their awards.

Priest's teaching career began in England 27 years ago after earning her MA from the Royal College of Art. She joined U of G as

a sessional instructor in 1983 and was appointed associate professor in 1988.

In the classroom, her style is a study in contrasts. She likes to work within a structure that is well-defined, but open to all possibilities. "Although I deal with very carefully ordered course outlines, I like to be spontaneous," she says. "I like to keep my antennae up to see if I'm spending my time in the classroom wisely."

Priest says her approach to teaching was shaped in part by being a parent to three children. "I learned greater patience and tolerance from them," she says. "I also watched how stressed they would get in school and I'd see from the other side how thoughtless teachers can be."

She believes that anyone who enjoys teaching has never forgotten what it's like to be a student. "Trapped inside every good teacher is a student excited by learning and astonished at the material," she says. "Trapped inside this middle-aged woman, watching the deterioration of her muscle tone, wondering if she should

really be wearing this outfit, is a student still."

Outside the classroom, Priest is a renowned multimedia artist whose work has appeared in solo and group exhibitions around the world for almost 30 years. Her most recent exhibit, "To View from Here," showed simultaneously last year at the Art Gallery of Hamilton and the Macdonald Stewart Art Centre.

She has a strong background in architecture, a subject she taught at the University of Toronto and University of Waterloo. In 1994, she received a Governor General's Award for Architecture for *The Monument to Construction Workers*, a sculpture in the Bay/Adelaide Park in Toronto. Done in collaboration with Baird/Sampson Architects and Milus, Bollenberghe, Topps, Watchom Landscape Architects, the project also won *The Canadian Architect Award of Excellence*.

Priest finds there's a symbiotic relationship between her work in

See AWARD on page 2



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Award confirms importance of teaching

Continued from page 1

the studio and her work in the classroom. Because of her experience as an artist, she knows what to look for in her students to encourage their development. "There's an altered state you enter when you're painting, when you've contacted your creative centre. I can look around the classroom and perhaps sometimes I can see who has contacted that centre and encourage them along or I can help those who haven't."

In turn, the intellectual provocation of the classroom stimulates her own art. "When you're telling students what they need to do to be a good artist, it strikes your conscience. It's a constant wake-up call for me."

Priest also finds stimulation for her teaching and art through interaction with faculty and students at other institutions. She has made academic forays to a variety of universities and colleges, including Harvard, Yale and the Ontario College of Art.

Thanks to the OCUFA award, Priest's accomplishments as a teacher are now a matter of public record. But over the years, many moments of private recognition have brought their own reward.

"Recently, I was coming out of a movie theatre when someone came over to me and said: 'Ten years ago, I took a drawing class with you and it changed my life.' It is such a joy to know you have made people see something about themselves that they wouldn't have seen otherwise. You've helped them find their talent and have a vision. You have empowered them."

Pennee, too, knows well the kind of impact a good teacher can

have on someone's life — it's what led her to where she is today. She first came to Guelph as an undergraduate in 1977 to study sciences and signed up for English only because she was required to take one of those pesky arts electives. But thanks to an inspiring teacher, "English turned out to be my most exciting and interesting course." And the rest is history . . . English.

Pennee went on to do her MA at Guelph and began working as a sessional lecturer in the Department of English in 1983. In 1993, she was awarded a certificate of superior teaching by the Central Student Association. She earned her PhD from McGill in 1994 and was appointed an assistant professor at U of G the same year.

She currently teaches Canadian literature, critical practice, literary theory and film and is closely involved with the Centre for Cultural Studies/Centre d'études sur la culture, serving as a member of its advisory council and convener of its Pedagogies Seminar, which meets regularly to discuss alternative principles and modes of learning. This winter, she also served as instructional development co-ordinator for Teaching Support Services.

For Pennee, one of the keys to good teaching is responding to students on an individual basis, no matter what the size of the class. "I learn everyone's name — that's something people always remember about my classes. It's important to personalize the learning because students really are involved in the process of learning as individuals. At the same time, it's important to professionalize learning because students are then more willing to take responsibility for their learn-

ing in and out of the classroom."

She says students describe her as a demanding teacher, "but they're glad I'm demanding. I expect them to take responsibility for teaching me and teaching others in the classroom. I expect them to meet me halfway on the work we're going to do. I expect them to be committed to critical thinking, to higher education for its own sake. But I also balance those demands with a lot of flexibility and sympathy for the amount of hours students have to work outside of their university studies just to stay in school."

Pennee says she has "learned a lot about teaching, what I'm teaching and how I'm teaching, from students." And one of the most important lessons she's learned is how to relinquish authority in the classroom without relinquishing responsibility, she says.

"Students bring all different kinds of experience and knowledge into the classroom. They have a lot to offer. If I were to teach autocritically, all of that wonderful experience and knowledge wouldn't come to the fore and wouldn't be valued as part of the teaching experience."

Both Priest and Pennee say they are touched and honored that their colleagues and students in the Department of Fine Art, Department of English and Centre for Cultural Studies nominated them for an OCUFA award. And both stress that their colleagues and students are major shareholders in these awards.

"Good teaching is not the product of an individual teacher or even an individual style," says Pennee. "It's produced by a supportive and committed and interested group of other good teachers and good students. I have been blessed with good colleagues and students. The teaching I do is only possible with and through them, as well as through the support of the many people who sustain Teaching Support Services."

In addition to the personal honor, Pennee says she's pleased with the wider significance of the OCUFA award. "It confirms for me that my colleagues remain committed to recognizing teaching as an equal part of our profession. In difficult financial times, there's a tendency to give a higher profile to research, but teaching and research should have equal weight. Good teaching is fed by research. And teaching gives research a human and public face." □

LETTERS

Is London semester understood?

As outgoing chair of the London Semester Committee (and a former co-ordinator of the London semester), I am puzzled by the comments of Board of Governors member Prof. David Prescott, who is quoted in the May 7 issue of *At Guelph* as saying that London House "prevented U of G from looking at other locations in the United Kingdom for a semester abroad."

I wonder if the professor would advise us on other suitable locations to fulfil the academic program published in the University calendar. He may be interested in checking out the London semester courses: "London Studies in Humanities," "London Studies in

Social Sciences," "Drama in London," "Literature in London," "English Art" and "Musie in London."

Is it possible that David Prescott doesn't really understand the purpose of a semester abroad? Is it further possible that this lack of awareness of the fundamental academic purpose of the London semester is shared by other members of B of G? If so, is it unreasonable to conclude that the board approved the sale of London House without knowing all the relevant facts (such as what the hell actually went on there)? I merely ask.

Prof. Alan Filewood
Department of Drama

Treat campus sessionals fairly

It is time the University administration gave serious thought to the current employment inequities regarding sessional faculty.

Sessional faculty teach across a number of departments and colleges and often offer devoted teaching and research activities to the University community. Although there has been some attempt to standardize pay rates, sessionals are not well paid for what they do, given that many of them perform the same teaching, research, conference, publishing and community services as full-time faculty.

They often live in economic insecurity over the summers, unsure of what teaching they might be given in the next academic year. Sometimes they teach courses without remuneration to develop specializations and cater to student interests.

The activities of sessional faculty at conferences, their publications and their community cultural activities enhance the reputation of the University within Guelph and across the country. Yet these activities are not rewarded and are not even recognized because they are not part of a promotion and tenure system.

Sessionals are hired and fired every semester, often for many years. This practice takes a psychological as well as economic toll. Many sessionals, despite being temporary workers, are in reality part of the ongoing life of the departments in which they work and contribute to their evolution.

Sessional faculty are badly affected by their total lack of job security and a lack of employment incentives. The Department of English has set up a committee to see what improvements can be

made to the current situation. Suggestions made so far include:

- making contract or tenure-track positions available to sessional faculty who have taught consistently over a certain number of years;
- offering paid research leave to sessionals whose research profile merits it;
- improving pension and health benefits; and
- making faculty privileges such as mortgage assistance, free tuition for children and travel subsidies available to sessionals on the same basis as full-time faculty.

Spring and summer sessions could be organized to make better use of sessional teachers; so could distance education. A mentoring system could be set up so that sessional teachers are assisted with professional development. Sessional lecturers should submit an annual report of their activities, and this should be taken up in some form of committee evaluation for promotion and advancement.

OISE professor Dorothy Smith, a guest speaker in the cultural studies colloquium this year, suggested that Canadian universities need to rethink their hiring and staffing practices in the light of the economic and cultural changes that affect them. The inequities between full-time tenured faculty and sessional faculty would be a good place to start.

U of G has an excellent record in compiling human rights documents and endorsing their principles. These principles should be put into practice with regard to their treatment of their sessional faculty.

Cherry Clayton
Sessional lecturer
Department of English

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Having a good hare day. Kirsten Anderson, a part-time employee at the Central Animal Facility, shows off one of her charges at the facility's annual open house May 14. More than 125 people turned out to meet members of the Animal-Care Services team, which cares for U of G's research animals. Photo - Trina Koster

Prior learning assessment adopted for undergraduates

At the May 13 meeting of Senate, the directors of the provincial agricultural colleges and the Horticultural Research Institute of Ontario, which all joined U of G April 1, were introduced. The directors are Bill Curnoe (Kemptville), Jocelyne Sarault (Alfred), Gary Ablett (Ridgetown) and Frank Eadie (HRIO). Four representatives of the College Agricultural Research Group were also introduced — George Chu, Serge Tremblay, Ken McEwan and Chris Gillard.

In Senate business, senators agreed that U of G will adopt prior learning assessment (PLA) in its undergraduate program as an acceptable process for assigning credit for learning that stems from experience outside institutions of higher education. PLA will become effective in the spring semester of 1998.

Senate also approved the formal adoption of the principle of granting academic credits for experiential learning that could be acquired through specially designated experiential learning courses.

Developed by the Board of Undergraduate Studies (BUGS) from a recommendation by the Strategic-Planning Commission, PLA evaluates learning outside the classroom for the purpose of granting academic credit. It differs from the transfer of credits from other academic institutions in that it provides credit for course knowledge without formal learning experiences. Mastery may be acquired through work experience, independent study or from non-degree courses. Departments will be responsible for determining how to evaluate learning, be it through challenge exams, submission of work or interviews.

The BUGS proposal document on PLA cites access, cost savings and fairness of recognition and respect for variety as reasons for adopting PLA at U of G. It will apply at the undergraduate level only and will be limited to no more than five credits in a degree program or no more than 30 per cent of the curriculum for an open learning certificate.

The document spells out the process whereby a student will

obtain credit for prior learning. Students will be required to submit requests for PLA to the Office of Registrarial Services or, for open learners, to the Office of Open Learning. The request will then be forwarded to the appropriate academic review committee. The academic review subcommittee of the appropriate program committee will review the request to determine if a case can be made to the department. If there is sufficient evidence to support a departmental review of the request, it will be forwarded to the appropriate department for evaluation. The chair of the department will then ask one or more faculty members to determine if a challenge by the student is appropriate. If a challenge is granted, the student will be informed of the nature of the assessment, which can include an examination, essay, additional readings or other requirements. If successful in completing the assessment, the student will be granted credit.

Senate also passed a motion that BUGS review the University's experience in prior learning assessment annually and present a report to Senate in fall of 2003.

Semesters-abroad review

After extensive discussion and a closely defeated motion to refer "guidelines for the review of semesters abroad" back to the International Committee for revision, Senate approved the document, which is intended to review and rank proposals to fund semester-abroad programs.

The document lists criteria based on academic rationale, administrative issues, accessibility, collaboration, location, care of students and cost factors. It states that semester-abroad proposals must be approved by Senate in terms of academic content, then ranked against other proposals for funding in a given budget cycle. The final decision for funding of these programs rests with the associate vice-president, academic.

Senate secretary Brenda Whiteside explained that the document was prompted by reductions in funding, which have led to decisions to offer only a limited number of semesters

abroad in one year. There was a recognized need for the Senate International Committee to be involved in making these decisions and to have criteria for measuring decisions about semester-abroad programs, she said.

The document came under criticism by senators for its ambiguous wording, lack of cost analysis and process of administrative evaluation. College of Arts dean Carole Stewart took exception to the document's suggestion that exchange programs are less costly alternatives to semesters abroad. "There is a presupposition that a semester abroad is the least desirable option," she said. "It is a false presupposition of relative costs."

Prof. Ron Stoltz, Landscape Architecture, chair of the International Committee, said the intent was not to consider semesters abroad as the least desirable option, but that the larger issue was the appropriateness of the options in terms of academic goals.

CSS dean David Knight said there needed to be clearer details about the role of program committees in evaluating semester-abroad programs. Stoltz said the document did not intend to bypass the role of program committees, but to develop centralized information for evaluation.

Articulation agreement

Senate approved an articulation agreement to facilitate the admission of graduates of the diploma in agriculture program into the bachelor of commerce program.

Under the agreement, diploma graduates will be accepted into the B.Comm. program if they have achieved a cumulative average of 70 per cent or higher. Diploma graduates must also have completed OAC admission requirements — or equivalent — for admission. Students who meet these requirements can substitute up to three degree courses from each of the third and fourth semesters of the diploma program.

For many years, qualified diploma graduates have been admitted to the B.Sc.(Agr.) degree program and granted credit for courses. In 1989, when the agricultural business major of the

Research fund a chance to expand partnerships

There was some positive news for universities in the provincial government's May 6 budget, says Prof. Larry Milligan, vice-president (research). "The Research and Development Challenge Fund announced by Finance Minister Ernie Eves is important recognition of the critical role of Ontario universities in ensuring the province's future economic strength," he says.

The province will commit \$50 million a year in new funding over the next 10 years to help the private sector "take advantage of the world-class universities and other research institutions in the province," said Eves in his budget statement. Instead of providing block grants, the fund provides incentives for excellence. The minister announced that all proposals to the fund will "have to

meet a market test linked directly to future economic growth and job creation in the form of a one-third contribution from the private sector." In the end, the province sees \$1 billion in new research support coming from this fund.

Milligan says the fund creates new challenges and opportunities for universities because success will depend on investment from the private sector. Combined with the Ontario Business-Research Institute tax credit — a 20-per-cent tax credit to strengthen Ontario's research and development tax competitiveness and to forge stronger links between the private sector and non-profit research institutions in Ontario — "we have a terrific opportunity to expand research partnerships with industry," he says.

He also notes the tremendous opportunities for Guelph in the establishment of Networks of Enterprise for Small Business, also announced in the May 6 budget. Universities and colleges should take advantage of the network funding to establish enterprise centres that build on their existing strengths, he said. Guelph, for example, could build on its expertise in rural development to create an enterprise centre that provides support for rural business enhancement.

President Mordechai Rozanski is also positive about the government's announcement. "I welcome the government's initiative in creating the Research and Development Challenge Fund," he says. "Along with the recently announced Canadian Foundation for Innovation, these initiatives will go a long way to restoring the research competitiveness of Ontario universities." He adds that he hopes similar initiatives for faculty renewal will follow. □

B.Sc.(Agr.) degree transferred to the B.Comm. program, no arrangements were made to develop a transfer policy for agricultural business majors. Diploma graduates can now transfer to the B.Comm. majors, including agricultural business, hotel and food administration, housing and real estate management, management economics in industry and finance, and marketing and finance.

COU report

In a report on Council of Ontario Universities (COU) activities, academic colleague Prof. Carlton Gyles, Pathobiology, presented information about COU's meeting with David Smith, chair of the Advisory Panel on Future Directions of Postsecondary Education. Smith told COU he is hopeful his panel's recommendation to fund research infrastructure at \$100 million annually will be achieved with the aid of federal dollars. Smith noted that the \$4.5 million that has been added to research infrastructure in Ontario for 1997/98 simply takes funding back to the 1995/96 level.

Prof. David Swayne, Computing and Information Science, expressed concern that governments are withholding infrastructure support and suggested that every dollar of research funding should come with 30 to 40 cents of infrastructure money.

Prof. William Christian, Political Studies, called the provincial budget's proposed university research funding proposal "dangerous in the extreme" because it provides corporations with decision-making powers on research. The May 6 Ontario budget states that the province will contribute \$500 million in new funding to the Research & Development Challenge Fund over the next 10 years. (See story above.)

U of G senators urged their COU colleagues to bring their concerns about research infrastructure forward to the council.

Senate named Gyles COU colleague for 1997/98; Prof. Derek Bewley, Botany, is alternate.

Full Senate minutes are available on the World Wide Web. □

Convocation June 3 to 6

More than 2,000 students will graduate during seven ceremonies on Johnston Green June 3 to 6.

Nobel laureate Elie Wiesel of Boston University will receive an honorary doctor of laws degree and address students graduating from the College of Social Science June 3 at 2:30 p.m.

Harvard University biologist Edward Wilson will receive an honorary doctorate of science and address CBS graduates June 5 at 10 a.m. John Kean, president and CEO of the Canadian Standards Association, will receive an honorary doctor of laws degree and address the FACS convocation ceremony June 6 at 10 a.m.

Retired OVC dean Ole Nielsen will be named honorary fellow of the University and will address OVC and CPES graduates June 5 at 2:30 p.m.

Other convocation speakers are Prof. Margaret Priest, Fine Art (College of Arts, June 4, 10 a.m.), Noble Villeneuve, Ontario minister of agriculture, food and rural affairs (diploma in agriculture, June 4, 2:30 p.m.) and Hank Vander Pol, Parents' Program chair (OAC, June 6, 2:30 p.m.)

The June 4 At Guelph will contain a convocation supplement. □

COMMENTARY

Federal election '97: Flood and debate may change the tide

by William Christian

Perhaps Jean Chrétien was wrong to call the election for June 2.

It's not that he was wrong in any constitutional sense. The 1993 election really began in the spring of that year, after Kim Campbell won the PC leadership and started her summer of barbecue campaigning. By the time the long campaign was finished, she was herself well done.

Chrétien did not have to call an election before the fall of 1998, but the time he chose was reasonable. No prime minister likes to delay too long into the mandate because of the danger that unforeseen events will not give him or her any chance to manoeuvre. Indeed, it could easily be argued that the Liberals had done so well in deficit reduction that this was an appropriate time to consult the people about their choices — lower taxes, higher program spending, debt reduction — for the next four years.

Unfortunately for the Liberals, nature and suspicious voters did not co-operate. In Manitoba, voters who had long felt neglected by the government in Ottawa became victims, thanks to the flood of the century. In the world of

identity politics, victims require special treatment, and many Manitobans were genuinely outraged that, as far as the prime minister was concerned, it was election business as usual.

Then there were the distrustful voters. They weren't exactly sure why they objected to an early election call, but if the prime minister wanted it, there must be something wrong. Besides, how could you trust a leader who had lied about health-care transfers, the GST and job creation?

The net result was that Chrétien and the Liberals began the campaign on the defensive. Nonetheless, it looked as if they would sleepwalk to an easy majority government.

There appeared to be little danger from the right.

The "New Conservatives" or "Charests" began their attempted comeback with a blunder. Just as Mike Harris's popularity was plummeting, Jean Charest announced a platform centred on tax cuts, the most prominent aspect of the Common Sense Revolution. A week or so into the campaign, he appeared to realize he had made a mistake and that he would have been better off drawing on the party's old Tory

traditions. He could have run a campaign emphasizing heritage, the environment, compassion for those less well-off and a concern for the integrity of the whole. In doing so, he would have been truer to his party's heritage. Tactically, it would have also served him well because he would have positioned himself slightly to the left of the Liberals. Instead, he has to compete for a narrow band of voters on the centre right with Reform.

For Preston Manning, this is a make-or-break election. Populist parties in the past, such as the Progressives, have soared in the West, only to fall back to earth with a thud a decade or so later. Manning clearly wants Reform to become a national party and not just another Alberta protest movement. Unfortunately for him, he had a caucus of 51 westerners and one MP from Ontario.

In the preceding Parliament, Reform had not done a creditable job as an opposition party that looked like an alternative government. The Bloc Québécois had been even less successful. On balance, the Bloc is a centre-left or social democratic party, but its main concern is obviously to promote some form of separatism, and that meant that English-speaking Ca-

nadians in the rest of the country did not accept it as a legitimate vehicle for their own concerns.

The Bloc encountered its own worst nightmare during the campaign when former PQ premier Jacques Parizeau decided to undermine the Bloc's strength. It is clear that he was motivated by something more than spite. Parizeau and Bouchard had never agreed on the nature of Quebec independence. For Parizeau, independence was the supreme goal. Bouchard would be content with greater autonomy and has always thought in terms of a continued association with Canada. By weakening the Bloc electorally, Parizeau calculates that he will enhance the position of his own stance on sovereignty among Quebec nationalists.

The NDP made a shrewd calculation at the very beginning of the campaign. It explicitly renounced the possibility that it would form the government. Instead, Alexa McDonough decided to concentrate on winning back some of the traditional NDP ridings in Ontario and British Columbia, while perhaps adding a couple in Atlantic Canada. The NDP would, she promised, return to its customary role as Canada's conscience.

For the first few weeks of the campaign, none of these factors seemed to gel, but they started to come together in the leaders' English-language debate May 12. From the outset, it looked likely that one of two scenarios would develop. For the Liberals to prosper, Chrétien had to set the two parties on the right — Reform and the PCs — at one another, while

similarly putting the NDP and the BQ at each other's throats. The alternative was to allow the four opposition leaders to gang up on Chrétien.

And gang up they did. Chrétien made no major blunders; he is a very skilled and experienced politician. But he was left looking weak when he pleaded with the audience to accept that his government had faced very difficult problems, had done their best, etc., etc.

McDonough achieved her objectives for the debate. She was strong and forceful in attack and effectively conveyed her plea to the audience to consider electing a strong NDP opposition.

Manning scored the most points against Chrétien, but it was Charest who achieved the most from the debate. He was eloquent, effective, knowledgeable and composed. It was his opportunity to emerge from 3 1/2 half years of obscurity, and he succeeded superbly. Without attacking Chrétien in the vulgar way the Tories tried in the ads in 1993, Charest managed to make Chrétien look old and tired.

It's still too early to tell what effect this will have on seat totals, but the chances of a Liberal minority government are a lot higher now than they were before the debate.

Prof. William Christian teaches in the Department of Political Studies and is co-author of *Parties, Leaders and Ideologies in Canada*. He is a frequent guest on national radio and TV public affairs programs.

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GRAD NEWS

The final oral examination of Harmanjit Singh Banga, a PhD candidate in the Department of Pathobiology, is May 23. The presentation is at 9 a.m. in Pathobiology 2152, followed by the defence in Room 1101. The thesis is "Cytokine-Binding and Acute-Phase Plasma Proteins in Pigs." The adviser is Prof. Anthony Hayes.

The final examination of D.V.Sc. candidate Patricia Turner, Pathobiology, is May 30 at 9 a.m. in Pathobiology 101. The thesis is "The Mechanism of Duodenal Ulcerogenesis Induced by a Novel Nonsteroidal Anti-Inflammatory Drug CI-987." The adviser is Prof. Dean Percy.

The final examination of PhD candidate Bonnie Hallman, Ge-

ography, is June 5 at 9 a.m. in Room 234 of the Hutt Building. The thesis is "The Spatiality of Eldercare: Towards a Gendered Geography of the Aging Family."

The final examination of Tim Green, a PhD candidate in the division of applied human nutrition in the Department of Family Studies, is June 6 at 2 p.m. in the Marriage and Family Therapy Centre. The thesis is "Dietary and Biochemical Assessment of the Folate Status of a Group of Adolescent Females." The adviser is Prof. Debbie O'Connor.

Interested members of the University community are invited to attend. □

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Peter Hannam, president of First Line Seeds, samples a fruit-based soy custard dessert developed by students Jennifer Lo, left, and Nicole Lepkowski. It's an invention that landed them first prize in Project SOY, sponsored by First Line Seeds.
Photo - Trina Koster

Innovation comes to life in soy contest

by Christine Black
Office of Research

For two U of G food science students, winning isn't a fantasy, it's *Fantasia*.

Fantasia is the working name that Nicole Lepkowski and Jennifer Lo have given to a fruit-based soy custard dessert they've developed. It's an invention that landed them first prize — and \$2,500 — in the first Project SOY (Soybean Opportunities for Youth) contest held at U of G.

Sponsored by First Line Seeds and the University, Project SOY invited students to come up with new and innovative uses and marketing strategies for Ontario soybeans. When the winners were announced in April, it was clear there was plenty of imagination at work.

"There is nothing more powerful than young, innovative, enthusiastic minds looking to improve life for everyone," says Peter Hannam, president of First Line Seeds. "Partnering with the University has created opportunities for everyone to win — students, soybean growers and consumers."

Student teams spent the winter semester developing new ways to use soybeans in an effort to expand the market for Ontario

growers. When the judges' decision was made, Lepkowski and Lo's *Fantasia* took the cake.

The winning duo set out to find a healthy soy product that was economical, tasty, vegetarian and easily processed to attract industry.

"We think there should be more effort to introduce soy products into everyday supermarkets," says Lo, "and we think *Fantasia* can sell in this market." Adds Lepkowski: "There is nothing else like it out there. We want to see what further developments we can explore with *Fantasia*."

Engineering undergraduates Cori Cowan, Jody Lewis, Jennifer Kinoshita and Karen Conrad took second prize for their innovative "Soy-Good Snax," a puffed soy-based snack food product that they plan to promote as a healthy alternative in retail and vending-machine markets. Third-place finishers Yaling Fan and Lawrence Wang examined the marketing strategy for Ontario soy milk products among younger Canadians.

The response to the first year of the contest shows promise for the future of this initiative, says Hannam. Next year, Project SOY will be expanded to U of G's new partners, the agricultural colleges at Ridgeway, Kemptville and Al-

fred.

"The world will always need innovative products and inventions like the ones these participants have developed," says president Mordechai Rozanski. "I'm confident this initiative will grow. It gives the students energy, enthusiasm and imagination for real-world needs."

The success of Project SOY impressed the judges as well. Ted Bilyea of Maple Leaf Foods, Don Murray of the Guelph Food Technology Centre, Rod Ricker of the Ontario Soybean Growers' Marketing Board and Hannam had the task of selecting the winners.

"First Line Seeds has the right attitude by recognizing the importance of food as a part of our economy," says Bilyea. "People take food for granted, but in reality, it is a high-tech industry with tremendous potential for job creation. Contests like Project SOY are helping to create awareness around soybeans that will generate ideas and increase the visibility of the food industry." □

Guelph students get northern exposure

by Jeff Stuart
Office of Research

Winter's over, and U of G researchers are heading north for the summer to study in Canada's arctic and subarctic.

With the help of student research grants from the Northern Scientific Training Program, Guelph graduate and senior undergraduate students will be working at a number of laboratories and field stations in Northern Ontario, Yukon and the Northwest Territories.

The focus of their research is broad — from the physiology, genetics and evolution of arctic animals to local approaches to tourism. The common thread is the promotion of awareness and understanding of Canada's vast arctic regions.

The Northern Scientific Training Program has funded northern studies since the 1960s. Its mandate is to encourage a commitment to northern studies in young researchers. It does this by helping to defray the high cost of conducting research in often isolated communities. This year, it will support U of G students working in communities such as Fort Albany, Moosonee, Tuktoyaktuk, Igloolik and Whitehorse.

"This program provides more than employment to students," says Annette Clarke, grants officer in the Office of Research. "It's an opportunity to work in a different environment where they're exposed to a host of new experiences."

A number of students from the Department of Zoology will be travelling to the land of the midnight sun this summer. Chad Rowe, Jonathan Witt, Andrea Cox and James Rhydderch — students of Prof. Paul Hebert — will be in Tuktoyaktuk. They're flying by helicopter to remote regions to collect invertebrates and fish. Back at U of G, they will study proteins and genes, trying to understand how these animals have adapted and evolved in a part of the world that has seen significant change during the Earth's history.

Zoologists Paul LeBlanc, Chris Kyle and other students of Prof. Jim Ballantyne, Prof. Elizabeth Boulding and Hebert will be collecting the sperm and eggs of spawning arctic char as part of a project aimed at developing a genetically superior breed of arctic char for the aquaculture industry. Back at home, they will artificially fertilize the eggs and monitor characteristics of the hatching fish to begin a selective breeding program.

Lesley Hymers and Marley Murphy, students of Prof. Peter Martini, Land Resource Science, will be studying the impact of seasonal river-ice breakup on communities in Fort Albany. Villages bordering rivers are increasingly affected by seasonal flooding as populations increase and rivers are rerouted. The researchers are studying a number of approaches to controlling this flooding.

Kirsten Müller, a botany student of CBS dean Robert Sneath, will be comparing stream algae in four different drainage basins near Cambridge Bay.

Two students from the Department of Geography will be working near Whitehorse. Jason Thomson, a student of Prof. Richard Kuhn, will study resource management in the newly established Vuntut National Park, which is jointly managed by the federal government and the Vuntut Gwitchin First Nation. Anne-Pascale Bartleman, who works with Prof. Kiyoko Miyajima, will study the regeneration of plant communities in seasonally disturbed areas near Whitehorse.

Dennis Zimmerman, a student of Prof. Don Reid, Rural Planning and Development, will be in Inuvik to study tourism policy. His goal is to provide data to aid in the strategic planning of tourism management.

The Northern Scientific Training Program is funded by the Department of Indian and Northern Affairs. □



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Let's get blooming!

The Grounds Department is doing its bit to help the city of Guelph bloom with success.

After winning the provincial Communities in Bloom Competition in 1996, the city is now vying for the national title, and Grounds is helping by initiating the planning of a flower bed for the corner of Gordon Street and Stone Road.

The design of the bed is based on the "Communities in Bloom" emblem in the shape of a flower.

In the drawing above, Grounds employee Bill MacDonald offers an artist's rendering of how the site will look.

John Reinhart of Grounds urges members of the University to get involved by offering their time to the planting project or by donating plants or money to buy plants. For information about volunteering to help with the project, call him at Ext. 2053. □

Garden project unique in Canada

by Margaret Boyd

A formal English garden under construction at the Arboretum is part of a unique landscape project that will include Japanese and Italian gardens and represent "a coming of age" for the Arboretum, says Prof. Alan Watson, director of the facility.

The Edna and Frank C. Miller English Garden, featuring a formal design of clipped hedges, topiary and perennial plants with walkways and arbors, is now under construction, with planting taking place until early June. It is being supported by Frank Miller of Hamilton in memory of his parents.

The English garden is directly south of the David G. Porter Memorial Japanese Garden, which opened in 1995. Together, they will become part of a design entitled "The Garden" to provide a "landscape link" between the OAC Centennial Arboretum Centre and the horticultural collections, says Watson. Eventually, "The Garden" will also include an Italian garden containing the fo-

cal point of a garden temple structure as well as trees with conjoining canopies and a fountain. All three gardens will be linked by paths and arbors and will be accessible from the Arboretum Centre's west lawn, which is being redesigned this year for better access.

"It will be unique in Canada," says Watson of the project. "With interpretation, the designs of the English, Japanese and Italian gardens will demonstrate the basis of our cultural concepts of formal landscapes."

The English garden, designed by Guelph landscape architect Christopher Campbell (a graduate of the School of Landscape Architecture), forms links to the Japanese Garden as well as to the Frances Ball Rose Collection across Arboretum Road and the horticultural collections of lilacs, dwarf conifers and azaleas and rhododendrons.

The garden's entrance will be bordered by tall European beech hedges forming a circle. From this point, the design will consist of three paths leading to beds of

perennials, topiary and ornamental hedges of boxwood and yew, with hedges of clipped cedar around the perimeter. Arbors will form "windows" looking out over the Arboretum, and benches will be included in the design. Perennials for the garden have been grown from seed by members of the Arboretum Auxiliary.

"The Garden" project will also feature the expansion of a forest-like area beside the Arboretum Centre to an east path leading from the English garden. On the west side of the garden, an orchard of flowering crab and individual tree specimens will be planted to convey a park-like setting and to blend into the overall landscape. The west lawn of the centre is being landscaped to provide better-defined access to "The Garden," the native trees of Ontario collection and collections to the north.

Eventually, single arbors and magnolia trees will be placed along the path linking the gardens, says Watson. These arbors will be available for dedication. □

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If you write poetry or short stories, you could win up to \$350 in cash and receive national publication of your work in *Guelph Alumnus* magazine. The annual competition, now in its fifth year, is sponsored by the magazine and the investment firm ScotiaMcLeod Inc.

A total of \$1,000 in prize money will be awarded: \$350 for first place and \$250 for second place in each category. First-place winners in both categories will be published in the alumni magazine.

Anyone can enter, except people directly involved in managing the competition. You can submit both a poetry entry and a short story, and published writers are eligible as long as they haven't published a book in the category of their entry, e.g., a book of poems.

Last year's competition drew about 450 entries from across Canada and several other countries. The winning authors were all from Ontario — Jennifer

Footman of Brampton, Jillian Horton of London and Robert Nielsen of Waterdown.

All entries to the competition must be typed double-spaced on 8 1/2-by 11-inch bond paper and must include a cover sheet with your name, address and telephone number. Pseudonyms are not allowed. Entries must be original and unpublished, with short stories no longer than 4,500 words and poetry no more than eight pages. Entries must be postmarked by July 15; winners will be announced in September. Include a self-addressed, stamped envelope if you want your manuscript returned.

Send entries for the *Guelph Alumnus*/Scotia McLeod writing competition to *Alumnus* editor Mary Dickieson in Communications and Public Affairs on Level 4 of the University Centre. Contest rules are also available on the Web at <http://www.uoguelph.ca/~uocomm/alumnus>. □

Human sexuality conference June 16 to 18

"Men and Sexuality" and "Sexually Transmitted Diseases (STDs) and Sexual Health" are the themes of U of G's 19th annual conference on human sexuality to be held June 16 to 18.

The conference draws teachers, counsellors, doctors, nurses, social workers and members of the clergy from across Canada and the United States.

Keynote speakers include Noni MacDonald, chief of the Infectious Disease Division and direc-

tor of the Cystic Fibrosis Service at the Children's Hospital of Eastern Ontario and a professor of pediatrics and microbiology at the University of Ottawa. She will discuss "Sexual and Reproductive Health in Canada: Good News and Bad News about STD Prevention" June 16.

On June 17, a plenary panel will focus on the topic "STDs and Sexual Health: Epidemiology, Prevention and Education." Panelists are David Patrick, chair of

the STD/HIV Committee, Canadian Infectious Disease Society, and associate director of the Division of STD/AIDS Control, B.C. Ministry of Health; and William Fisher, a professor of psychology, obstetrics and gynecology at the University of Western Ontario.

Plenary speaker June 18 is retired U of G family studies professor Claude Guldner, who will discuss "Men and Sexuality: Focusing the Issues." □

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OAC Millennium, a new variety of soybean developed at Guelph that is setting standards for yield, maturity and standability, is poised for stardom with its exclusive rights going to PRO Seeds of Canada. From left are Norris Hoag, assistant deputy minister of agriculture, food and rural affairs, education, research and laboratories division; Bob Hart of PRO Seeds; OAC dean Rob McLaughlin; and Prof. Dave Hume, chair of the Department of Crop Science.

Photo - Martin Schwalbe

New millennium arrives early

by Owen Roberts
Office of Research

U of G's latest superstar soybean has become the first to have its marketing rights awarded directly to industry through a tendering process.

OAC Millennium, which is setting standards among 2,600-heat-unit soybean varieties for yield, maturity and standability, will be marketed in 1999 by Woodstock-based PRO Seeds of Canada. The company outbid competitors for the new variety's global marketing rights.

For soybean varieties developed at Guelph and sponsored by the Ontario Ministry of Agriculture, Food and Rural Affairs, such rights have traditionally been made available on a non-exclusive basis. Without exclusive rights to a variety, however, companies have less incentive to aggressively market it. And lackluster

marketing means less royalty generation for the University's plant-breeding programs.

With OAC Millennium, the University didn't want to take that chance. In performance evaluation trials in 1995/96, this new variety out-yielded its competitors by eight per cent. It matures in 116 days, three days earlier than OAC Bayfield, the current leader of the early maturing soybean pack. And it registered a lodging score of 1.1 (on a scale of 1 to 5), better than any other variety.

"OAC Millennium is head and shoulders above its competitors," said PRO Seeds president Bob Hart at a recognition ceremony at the Arboretum. "We're excited about the fact that we, an upstart young company, outbid our major competitors and acquired the rights to this number-one-ranked variety."

PRO Seeds is just two years old.

It consists of seven registered seed businesses and 10 select seed growers, who market to 80 other retailers across Ontario and Quebec.

Besides outbidding the competition, PRO Seeds also had to provide a detailed marketing plan to bring OAC Millennium to its full market potential and generate maximum royalties.

"Because of its early maturity and high yield, there's a large chunk of the United States where we think it will have appeal," says OAC dean Rob McLaughlin. "Royalties from seed we develop here are extremely important for maintaining and expanding our breeding programs."

OAC-bred soybeans are highly popular with farmers. Five of the current 10 top-yielding early varieties were developed in Guelph. □

Scientists probe ion channel implicated in heart disease

by Margaret Boyd

A collaborative effort by Canadian and American researchers to predict the structure of ion channels (pores through cell membranes) is leading to the development of drugs to treat heart disease.

Prof. Saul Goldman, Chemistry and Biochemistry, Prof. Chris Gray, Physics, and research associate Jian-Guo Hu are working with Peter Backx, a medical professor at the University of Toronto, and Robert Guy at the National Institutes of Health in Bethesda, Maryland, to determine the molecular basis of selectivity and permeation in ion channels.

"The research at U of G will provide the necessary structural information to develop compounds interacting with chosen subsets of ion channels, which play a role in the development of heart disease," says Backx. "This work will lay the foundation for future rational drug design."

Malfunctioning ion channels that admit sodium and potassium are implicated in cardio arrhythmia. Because alterations in ion channel function cause abnormal electrical rhythms (arrhythmias), which are responsible for about 40 per cent of all deaths in patients with heart disease, understanding the molecular structure of these channels in the heart is critical to develop novel treatments for these ailments.

In addition, evidence from Backx's laboratory establishes that altered ion channel function plays a critical key role in the development and progression of heart disease independent of arrhythmias. Transgenic mice bred with malfunctioning potassium ion channels develop heart failure at six to eight weeks of age. But modulating the behavior of ion channels in the heart is complicated by the presence of at least 15 different types of ion channels, many of which are also found in

other tissues.

At U of G, computer simulations based on Newton's equations of motion are being used to follow the motion of the ion in the ion channel, the structure of which is based on three-dimensional models created by Guy. In a small computer lab, Hu works out the functions required to predict the conductivity. This involves tracking the motion of the ion and the channel, an exercise that requires close collaboration among Goldman, Gray and Hu. It's a laborious process — three dedicated processors are crunching figures 24 hours a day, seven days a week. The work on the potassium ion is almost complete, and the sodium ion is now being studied.

"The purpose is to come up with reasonably accurate three-dimensional structures for ion channels," says Goldman.

If the computer-simulated conductivity of these ions matches the measured values, this adds support to the putative structure initially provided by Guy. This structural information in turn helps in designing drugs to act as channel blockers. If the predicted and measured conductivities differ significantly, another structural model that corrects the specific deficiency will be provided by Guy. Computer modelling of the ion channels is necessary because X-rays cannot be used to determine their structure, says Gray.

"We have to go back to look at the function of the pore and its conductivity," he says. "We have to induce rather than deduce."

The research team is currently in the middle of a three-year project sponsored by the Natural Sciences and Engineering Research Council and the Medical Research Council. □

Cows know how to lick pain

by Sarah Haines
Office of Research

Cows know how to lick the pain associated with birth — literally, say U of G researchers.

Carlos Pinheiro Machado, an animal and poultry science master's student, and professor Frank Humik believe the amniotic fluid cows ingest by licking newborn calves minimizes post-birthing pain.

The researchers say tests they performed at the Elora Research Station suggest there's a "placental opioid enhancement factor" in the fluid, meaning it has an analgesic effect similar to ASA.

"When it comes to pain management in cows, Mother Nature knows best," says Humik. "Licking appears to help them feel better."

The researchers conducted their year-long project with 36 dairy cows. The animals were divided into two groups — those that had the opportunity to lick their calves

(and ingest amniotic fluid) after giving birth and those that were distanced from their calves immediately following birth.

Both groups were exposed to heat lamp-like devices in their stalls. Researchers observed how long the animals remained comfortable with the heat the lamps gave off. They found the cows that licked their calves tolerated it longer, suggesting an elevated pain threshold.

"We believe that the analgesic effect of the amniotic fluid was responsible for this increase in pain threshold," says Humik. "We don't know the chemistry at work — we need to work with a chemist to analyse the fluid's composition."

The researchers say licking has another benefit. During the first hours after birth, mothers' licking stimulates the calves' circulation and motivates them to stand up and seek nourishment. It also helps new mothers focus on protecting and nurturing their new-

borns because the distraction of post-natal pain is reduced.

"This is valuable information for farmers," says Humik. "Understanding cows' behavior will help us improve the management of calving and consequently their well-being. We should try to understand these natural processes."

This research is sponsored in part by the Ontario Ministry of Agriculture, Food and Rural Affairs. □

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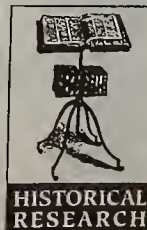
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Marine biologists surface as film heroes

Editor's note: This article was written by Lauren Miller, host of *Journeys with Lauren Miller*, a TV documentary series that profiles people with a passion for science and a flare for adventure. She submitted this story after spending a few days with several U of G alumni working at the Grand Manan Whale and Seabird Research Station on the Bay of Fundy on a project initiated by Prof. David Gaskin, Zoology. Entitled *Enigma*, the program will be aired this summer on Discovery Channel and TVOntario.

No matter how many stories I tell in my television series, the passion and drive of the people I meet never cease to amaze me.

Marine biologist Andy Read, who holds a B.Sc., M.Sc. and PhD from Guelph, is maintaining a world-renowned project on Grand Manan in which fishers and scientists co-operate. That in itself is a coup. The project is designed to rescue and release threatened harbor porpoises trapped in fishing weirs.

Picture a heart-shaped fence sticking out of the ocean and you have a rough idea of what a weir net is. The net is strung between poles hammered into the ocean floor to form a pen. Herring swim into the weir, but for reasons known only to Mother Nature, they don't swim out again. Sometimes porpoises follow. A seine boat motors inside the weir and casts a seine net to harvest the fish. When porpoises get trapped in the seine nets with tons of her-

ring, they drown.

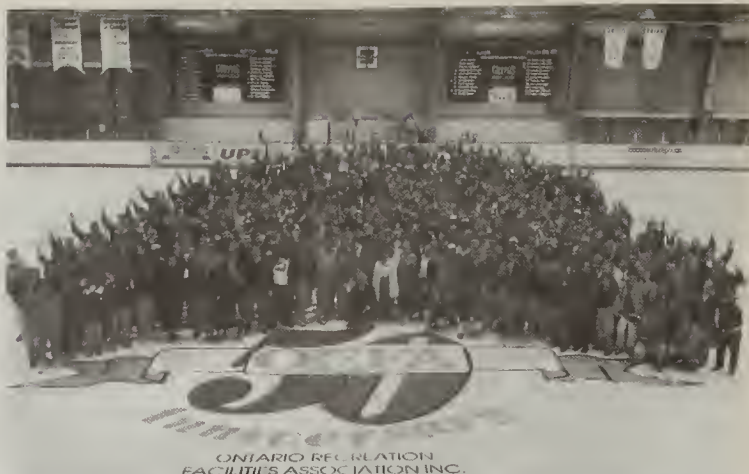
That's where Read and his team of biologists come in. Among them are Guelph graduates Andrew Westgate (B.Sc. '89 and M.Sc. '95), Heather Koopman (B.Sc. '92 and M.Sc. '95), Aleksija Ncimanis (B.Sc. '93) and Laurie Murison (M.Sc. '86).

I quickly learned that I could not survive this work. For endless angst-ridden moments, the rescue team watches helplessly from a tiny skiff as the fishers slowly haul in the seine net with a baby porpoise trapped inside. Each time the porpoise surfaces to breathe, someone records the time. If four minutes lapse between breaths, the porpoise has probably drowned. All eyes scan the water pleading for a glimpse of movement. The knot in my stomach tightens.

The porpoise is retrieved from the weir alive, so the scientists quickly measure it, weigh it, analyse its fat content, draw a sample of blood and tag it while the skiff races for open water. Outside the weir, the porpoise is gently lowered into the sea, and it jets away to join its mother, who has been "pacing" outside the weir for two days. Tears flow — mine.

I was flabbergasted at the team's speed, precision and steady nerve. They are determined to keep the harbor porpoise off the endangered species list, and the data they are collecting are critical toward that end.

I've never met such a dedicated group. I am humbled by their resolve. □



Members of the Ontario Recreation Facilities Association (ORFA) celebrate their 50th anniversary in a place where they feel right at home — U of G's twin-pad arena. ORFA recently held its annual training and development program at Guelph for the 41st time and drew a record crowd. Photo - Martin Schwalbe

Ice maker for '98 Olympics learns trade at U of G, promises 'best ice ever'

by Margaret Boyd

The man who will be responsible for the hockey ice surface at the '98 Olympics in Nagano, Japan, says Canada is 10 years ahead of his country in ice making.

"I've come to Canada to get expertise and take it back," says Makoto Narita, better known as "Mac," who was on campus earlier this month for the annual training program run by the Ontario Recreation Facilities Association (ORFA).

A client of Jet Ice of Richmond Hill, Narita recently spent two weeks in Canada learning advanced ice-making skills and touring famous arenas such as Maple Leaf Gardens in Toronto and Molson Centre in Montreal. He works for Leisure Industries of Japan, an ice-making company that owns six skating rinks and has built 60 to 70 rinks in Japan, where skating is growing in popularity.

A hockey fan as well as a player, Narita promises that the ice during the '98 Olympics will be "the best quality of ice ever." Eight ice rinks are being built for the Nagano Olympics — two for hockey and one each for practice hockey, figure skating, figure practice, speed skating, curling and practice curling.

It's not Narita's first visit to Guelph. Three years ago, he attended the ORFA training program, where he cemented a friendship with Dave Loverock, vice-president and director of ice technology for Jet Ice. Loverock, who accompanied Narita on his tour, is proud of his small company's reputation for ice making and ice-making supplies. "We love ice, we make ice, we sell it, we train to get better-quality ice," he says.

Loverock notes that the parameters for creating a perfect sheet of ice are expanding, and an experienced ice maker has to be able to

gauge everything from the refrigeration system to the number of people in the arena to maintain perfection. He is determined to help Narita achieve the perfect ice surface at the '98 Olympics. The ice at the '94 Lillehammer Games in Norway had "lots of problems," he says.

The ability of Narita and Loverock to communicate about ice despite their language barrier is proof of the highly specialized nature of their business. In describing his obsession with ice, Loverock says he watches the ice surface more than the hockey games on TV. As he mimes the action of channel hopping and declaring "good ice" or "bad ice," Narita nods his head and laughs in agreement.

Editor's note: Thanks go to Yoko Imai of the Department of Zoology for her assistance as translator. □

NHL to partner with Ontario association for ice-making skills

It has long been known that Canadians know hockey and ice, but now this knowledge has become an exportable commodity.

The Ontario Recreation Facilities Association (ORFA), which holds its annual training and development program at U of G, is entering into a partnership with the National Hockey League to develop and implement a training program for ice making and maintenance at all NHL-affiliated rinks throughout North America. The partnership was announced by Bryant McBride, director of new business development for the NHL, at ORFA's annual banquet at U of G.

"It is one of the biggest things that has happened to us in a long, long time," says Tony Brenner, vice-president and chair of professional development. "It is a

classic case of being in any kind of service and the customer saying: 'You've got what we need.'"

The NHL has 26 franchised hockey teams, but it also has a huge interest in supporting hockey at the grassroots level, says Brenner. The NHL is currently developing and promoting a community concept to enter into partnership investments with community rinks. By supporting hockey at the youth level, the NHL is helping to expand the popularity of the sport in the United States and promoting interest through the ranks to the professional level. There are an estimated 2,200 rinks in the States, compared with 5,500 in Canada.

The NHL partnership came about because there is awareness of the quality of training provided by ORFA, says Brenner. ORFA is



the only association in Canada that trains and certifies people in ice making, and it has established the standard for quality with the most up-to-date knowledge of technological advances and equipment.

"We know ice and how to accommodate hockey, but we never take it for granted," says Brenner.

ORFA has a record number of participants at its Guelph program this year — 556. It has held its annual training and development programs at U of G for 41 years. In addition to ice making, ORFA offers training in all aspects of the recreation facility industry, including sports turf management and aquatic facility operations, as well as general management and legal issues. □



Guelph grad Andy Read, centre, steadies a porpoise as other crew members sponge it down and prepare to draw blood samples, measure and tag the animal before releasing it to safety.

Listservs track information on food safety, agricultural risks

by Margaret Boyd

The Food Safety Network (FSnet), a U of G-based listserv that collects and distributes the latest global developments in food safety risks — from mad cow disease to outbreaks of *E. coli* — has found a rapid audience of scientists, policy makers and laypeople throughout the world.

The same can be said for Agnet

(Agriculture Network), which carries material related to plant agriculture, including food biotechnology, chemical hazards, productivity and sustainability, to various audiences.

These free electronic communication tools were initiated by Prof. Doug Powell, Food Science, to promote awareness of public concerns in scientific and regulatory circles, to rapidly identify is-

ssues for risk management and communication activities, and to assist in risk analysis activities. After a three-month trial period with funding from the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), FSnet went online in May 1995; Agnet was established in May 1996 with funding from OMAFRA's plants program at U of G.

The daily creation of these listservs requires high-tech electronic sleuthing. Each day, Powell and two graduate students search a mass of electronic and paper information from Canadian, U.S. and international sources relating to agriculture and food safety. These articles are edited, condensed and posted daily on the FSnet and Agnet listservs, which are read by 900 and 700 members, respectively, from 20 countries.

"There has been a huge interest in microbial food safety since the Jack-in-the-Box restaurant issue broke," says Powell. (In that U.S. incident, an outbreak of the bacterium *E. coli* 0157:H7 traced to hamburgers caused the deaths of three children.) "The public is increasingly demanding to be involved in the decision-making process regarding food safety and health-related issues."

Powell, who is director of the Science and Society project at Guelph and the University of Waterloo, notes that analysing and tracking articles related to food safety and agricultural issues

serves as a tool to understand the formation of public opinion. In fact, he says, it's possible to predict trends and how the public will react to perceptions of risks or benefits from these sources, which act as an early warning system.

"For example, after the mad cow disease story broke on March 20, 1996, it was clear that the main issue besides health was moral outrage over the fact that rendered protein was being used in cattle feed, which some described as feeding cows to other cows."

Powell notes that because uncertainty in scientific assessments often translates into public apprehension, effective risk communication must involve carefully constructed risk messages. These messages require up-to-the-minute information as new risks are identified in the public arena. And given that more people are being entrusted with decision making without proper information, there is a greater need for services such as FSnet and Agnet, he says.

"Speed in identifying and responding to claims that appear in the media is a crucial factor in the formation of public perceptions."

Information posted on the listservs is also a valuable research tool for students for qualitative and quantitative risk assessment. In fact, the listservs are required reading for several courses on campus. Recent case histories of risk communication and management are being published by



Prof. Doug Powell

McGill Queen's University Press this month in *Mad Cows and Mother's Milk*. Written by Powell and Queen's professor Bill Leiss, the book contains case histories related to plant biotechnology, breast implants, mad cow disease, hamburger disease, PCBs, dioxins and bovine somatotrophin.

To subscribe to FSnet, send e-mail to listserv@listserv.uoguelph.ca. Leave the subject line blank, then type the following, substituting your name for "jane smith": subscribe fsnet-L jane smith. The two listservs are supported by OMAFRA, the U.S. National Food Processors Association, the U.S. National Pork Producers, Agricultural Groups Concerned About Resources and the Environment, Monsanto Canada, Hedley Technologies, Pioneer HiBred Limited (Canada) and the Ontario Soybean Growers' Marketing Board.

Dairy scientists set to m-o-o-ve on Guelph

U of G will host the 92nd annual meeting of the American Dairy Science Association (ADSA) June 22 to 25. About 1,500 delegates — many of them international experts in the production, processing, health and public safety aspects of dairy products — are expected to attend from across the United States, Canada and other countries.

Scientific presentations will focus on all aspects of the production and processing of milk and dairy products and will be of interest to anyone involved in the dairy industry. A number of educational industry tours are also planned.

The meeting will feature a number of major symposiums in addition to the regular scientific program of recent advances in the

field. These include the optimization of protein nutrition of dairy cows for reproduction and lactation of dairy cattle, breeding objectives and strategies, milk protein, meeting amino acid requirements of dairy cows, development and control of biofilms on dairy-processing equipment, transition cow and calf management, cheese flavor, functional and nutritional attributes of milk fat and future National Research Council nutrient requirements for dairy cattle.

U of G's conference co-ordinator is Diane Haddow in the Department of Animal and Poultry Science. She can be reached by phone at Ext. 2583, by fax at 519-767-0573 or by e-mail at 97adsa@aps.uoguelph.ca.

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2. July 7-11.....Volleyball/Golf
3. July 14-18.....Basketball/Baseball
4. July 21-25.....Tennis/Basketball
5. *July 28-August 1.....Golf/Volleyball
6. August 4-8.....Squash/Soccer

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Week	Date	Fee	Discount
1	June 30-July 4	125.00	--
2	July 7-11	125.00	112.00
3	July 14-18	125.00	112.00
4	July 21-25	125.00	112.00
5	July 28-Aug 1	125.00	112.00
6	Aug 4-8	125.00	112.00

Sub Total: _____ + _____ = _____

Total: _____

Name of Child: _____

Address: _____

City: _____ Prov: _____

Postal Code: _____

Date of Birth: _____

Age as of July 1st: _____

Sex: ☐ Male ☐ Female

Parent/Guardian: _____

Phone (H): _____ (W): _____

Ontario Health Card #: _____

Other Health Plans: _____

Community

NOTICES

Wild rose festival

Everything's coming up roses for the Arboretum's third annual wild rose festival June 22 from 11 a.m. to 4 p.m. The festival features tours of the rose garden, advice on growing roses, a sale of roses and related items, children's attractions, garden-related crafts and an exhibition of floral watercolors. A Victoria tea with entertainment will also be offered; cost is \$3.50 for adults, \$2 for youth and free for children five and under.

Get oriented

The Office of First-Year Studies invites campus organizations to promote their events for new students in the Orientation '97 brochure. The deadline for submissions is June 2. For more information, call the orientation office at Ext. 6731.

Lend a foot

Help raise money for the Guelph General Hospital and St. Joseph's Hospital and Home by joining or sponsoring a team for the annual Hot Foot Happening June 6. Beginning at 8 p.m., teams will walk, run and skip around Centennial Park for 24 hours. The fund-raising goal is \$200,000. To join or sponsor a team or help out as a volunteer, call the Hot Foot Happening hot line at 767-4150.

Women honored

The YMCA-YWCA will present its annual Women of Distinction awards at a banquet May 29 at 5:45 p.m. at Guelph Place, 492 Michener Rd. Emcee is Dinah Christie. Tickets are \$45 with a partial tax receipt and are available at the YMCA-YWCA, Guelph Mercury and the Guelph and Wellington Credit Union. For more information or to reserve tickets, call Irene Brenner at 824-5150.

Garage sale

The Guelph Food Bank will hold a garage sale and perennial sale May 23 and 24 from 8 a.m. to 8 p.m. at 100 Crimea St. If you have items to donate, they can be dropped off at Crimea Street or you can call to arrange pickup at 767-1380.

Review continues

The President's Review Committee, struck to consider president Mordechai Rozanski's first term as president, is continuing its deliberations in anticipation of a report being made to Board of Governors June 25.

Arboretum volunteers

You don't need a green thumb to join the Arboretum's Auxiliary. Volunteers are needed for the front desk, special events, the annual plant sale, docents, etc. For information, call Ext. 2113 or 823-9766.

Spring picnic

The Multiple Sclerosis Society will hold a spring picnic June 8 from 11:30 a.m. to 3 p.m. at the Springfield Golf and Country club. The event will feature a barbecue lunch, raffle and door prizes. For more information or to register, call 836-1812.

AIDS walk

Guelph AIDS Walk Canada is looking for volunteers to help with this year's walk Sept. 28. More than 100 volunteers are needed for a variety of tasks, including general office duties, special events leading up to the walk and the walk itself. For more information, call Julie McCann at 763-2255, Ext. 22.

Writers' festival

The Elora Writers' Festival runs June 1 at the Elora Gorge Cinema. Ten novelists, poets and short-fiction writers, including Austin Clarke, Dionne Brand and Wayson Choy, will read from their works beginning at noon. Admission is \$6. For more information, call 846-8549.

Theatrical summer

Theatre on the Grand is offering a theatrical school for teens this summer, running July 7 to Aug. 1 from 9:30 a.m. to 3:30 p.m. The school will offer classes in acting, improvisation, voice and movement, with a public performance Aug. 2. Young people between 13 and 18 are invited to audition May 25. To book an audition, call the theatre at 787-1981.

Arboretum workshops

Interpretive horticulturist Henry Kock will lead rose workshops June 9 and 11 at 7 p.m. at the Arboretum's Frances Ball Rose Garden. Cost is \$13.50. Register by June 2. Interpretive naturalist Chris Earley offers a workshop on "Sketching Nature" June 17 at 7 p.m. Sketch books and pencils will be provided. Cost is \$12. Register by June 10. For more information, call Ext. 4110.

If at first...

The Victorian Order of Nurses for Guelph-Wellington-Dufferin has rescheduled its washed-out briefcase walk to June 7. It begins at 10 a.m. at the Elora Town Hall and winds up at the Templin Gardens in Fergus. Walkers are asked to wear a combination of business and recreational attire and will be provided with cardboard briefcases. For more information or to register, call Kristen Porritt at 822-5081, Ext. 102.

At the museum

Guelph Civic Museum celebrates its 30th anniversary with a special exhibit June 9 to Sept. 7 exploring the museum's early years and the people and exhibits that have helped to gather and preserve the stories of Guelph. A travelling exhibit of photographic portraits entitled "INCONTRO: Where Italy and Canada Meet" to come to the museum June 2 to July 27.

Festival gears up

The Guelph Spring Festival kicks off May 23 with an opening gala concert at 8 p.m. at the new Guelph civic centre. The festival runs until June 1 and features performers ranging from Kate and Anna McGarrigle to the Polytech Choir of Helsinki. For ticket information, call 763-3000.

Big-box knockout

A public screening of the compilation video *Big-Box Knockout: Community Versus Consumerism* is slated for May 25 at 4 p.m. at the Bookshelf Cinema. The video features 10 short videotapes by selected artists chosen in a juried competition sponsored by ED Video Media Arts Centre. Admission is free, but donations are welcome.

A comedy tonight

Family Counselling and Support Services presents the musical comedy *70 Girls 70* with the Trinity Community Players June 21 at 2 and 8 p.m. at the new civic centre. Tickets are \$20 for adults, \$15 for students and seniors and \$10 for children and are available at the civic centre box office, 763-3000.

Teaching dossiers

The third annual Recording Teaching Accomplishment Institute organized by Dalhousie University's Office of Instructional Development and Technology (OIDT) runs June 23 to 27 and gives faculty an opportunity to assemble a teaching dossier with the advice and guidance of experi-

enced facilitators. The program includes workshops, discussion and private consultation. Cost is \$200. For more information or to register, send e-mail to OI DT@dal.ca or contact Carol O'Neil by phone at 902-494-1622, by fax at 902-494-2063 or by e-mail at O'Neil@dal.ca.

Music at Dublin

Dublin Street United Church presents an evening of music for choir and organ by Barrie Cabena June 15 at 8 p.m. The works include a world premiere composed for the Dublin Street Choir. Cabena will lead the choir and perform with Jan Overduin, Lois Benneweis and Jonathan Oldengarm on "Sonato Brevissimo for Four Organists." Soloists are Sheri Cabena, Beth McCracken and Mary Lynne Whyte. Tickets are \$10.

WebNet final call

The Association for the Advancement of Computing in Education has issued a final call for participation in WebNet '97, a world conference on the World Wide Web, Internet and Intranet Oct. 31 to Nov. 5 in Toronto. The deadline for submissions is July 24. For more details, check out the Web site <http://www.aace.org/conf/webnet>.

World markets

The Guelph Chamber of Commerce presents a session on "Exploring World Markets: The Guelph Connection" May 29 from 7:30 to 10:30 a.m. at the Guelph Holiday Inn. Speakers include Chuck Cunningham, U of G's director of enrolment management and registrar services; and Peter Sutherland, director general of the International Business Operations Bureau. Cost of the session is \$35 general, \$10 for students. For more information, call 822-8081.

Multimedia aquaculture

Gregor Reid will demonstrate his "Getting Started in Aquaculture" multimedia CD-ROM May 28 at 12:30 p.m. in Room 1713 of the OVC Learning Centre. The 13 modules illustrate concepts in aquaculture and provide a basic knowledge required for fish farming.

On stage

The Theatre on the Grand's Not So Grand Players present *All Sales Final* May 28 to 31. For ticket information, call 787-1981. The Drayton Festival Theatre stages *The Sunshine Boys* June 3 to 21 at the main theatre and *Forever Plaid* June 4 to Dec. 31 at the St. Jacobs Schoolhouse Theatre. For tickets, call 638-5555.

A piano festival

The Arkell Schoolhouse Gallery presents "The Arkell Solstice Piano Festival" in May and June. The series of three piano concerts kicks off May 31 with "The New Art Duo: 20th-Century Esoteric Music," featuring pianist Terry Kroetsch and percussionist Carol Bauman. Tickets are \$12. Next up are Alexander Tselyakov and

Folke Grasbeck performing works for two pianos June 6. Tickets are \$15. The series wraps up June 21 with Andreas Thiel. Tickets are \$12. All shows are at 8 p.m. To reserve tickets, call 763-7528.

Director sought

The Centre Wellington Children's Drama Club is looking for a director for its 1997/98 season. For details, call Lena Nudds at 843-3470.

Unitarians meet

The Guelph Unitarian Fellowship at 122 Harris St. will hold a flower communion June 1 at 10:30 a.m. The fellowship's last regular meeting until fall is a family picnic June 8.

A listening ear

The Guelph Distress Centre is looking for telephone volunteers willing to work four four-hour shifts a month for at least a year. The centre also needs volunteers for office work, bookkeeping, minutes taking, public relations and fund raising. If interested, call 821-3761.

House tour

The Zonta Club of Guelph and area holds its annual house tour June 1 from 11 a.m. to 4 p.m. Tickets are \$15 and are available at Ki Design, Monte's Place and Barber Gallery.

Learning with the Web

"The Web as 'Learning Assistant': the Basics and Beyond" is the topic of a one-hour workshop May 23 at 10 a.m. in Room 1713 of the OVC Learning Centre. A team from Teaching Support Services and Computing and Communications Services will explore three approaches to building Web resources to support student learning. Register by e-mail at mnaim@uoguelph.ca.

Microbial risk

U of G and the Guelph Group For Research in Food Safety present a symposium on "Predicting Microbial Risk Throughout the Food Chain" June 4. Cost is \$150 before May 30, \$170 after. The student fee is \$40. For more information or to register, call the Office of Open Learning at 767-5000, fax to 767-1114, send e-mail to info@open.uoguelph.ca or visit the Web Site www.open.uoguelph.ca.

Summer worship

During the summer, Roman Catholic mass will be held Sundays at 10:10 a.m. in the lobby of the Landscape Architecture Building. The Open Door Church of non-denominational worship runs on the second Sunday of each month at 7 p.m. at Harcourt United Church, 87 Dean Ave. The next service is June 8.

Dessert party

Victory Public School will hold its 36th annual dessert party and fun fair May 29 from 6 to 8 p.m. at 135 Exhibition St. □



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1988 Dodge Caravan, seven-passenger, automatic with roof rack and trailer hitch, 195,000 kilometres, Bev, 836-7070 after 6 p.m.

1996 Toyota Corolla, green, low mileage, air conditioned, automatic; Perego high chair, adjustable height, seat can be used independently, 836-8682 or send e-mail to ioumoney@freespace.net.

1993 Aerostar Sport Van, 126,000 kilometres, excellent condition, well maintained, 519-848-5941.

1992 Dodge Caravan, automatic, three-litre engine, stereo AM/FM cassette, air conditioning, 112,000 kilometres, excellent condition, regularly serviced, leave message at 823-0671 or send e-mail to lauriem@alumni.uoguelph.ca.

1994 Hyline Park 40-foot trailer with tip-outs, located at campground in Seaforth, two bedrooms, full bath, central air and heating, AM/FM cassette throughout, eat-in kitchen with table and chairs, refrigerator, stove, gas barbecue, 40-foot deck, Ext. 6696 or 1-519-650-2343.

Air conditioner, 5,000 BTUs, seven years old, good condition, 824-0895 after 5 p.m.

Denby stoneware, "Sunburst" pattern, service for nine plus platter, casserole, salt and pepper shakers, 821-8804 after 7 p.m.

Beer bottle collection from 1970s onward in Ontario, some 1950s, also numerous international bottles, John, Ext. 2396 or 853-0918 evenings.

Vintage 486SX with math coprocessor, 8M RAM, 120M hard drive, large tower, lots of room for upgrades, Dominique, 822-1014 or send e-mail to dcharon@ovenet.uoguelph.ca.

Two-bedroom townhouse-style condo, 1,300 square feet, 3 1/2 baths, finished family room, central air and vac, gas fireplace, attached single garage, located in south end of Guelph, backs on to conservation area, ideal for retired or professional couple, 836-0568.

Four-bedroom home in south end, mature trees, double garage, large fenced yard, high-efficiency gas furnace, air, fireplace, immaculate, 824-7969.

Single bed, dresser with mirror, end table, Lynn, Ext. 4803 or 767-0451 evenings.

Sears Free Spirit treadmill, one year old, like new, Bonnie, Ext. 2418.

Blue Jays tickets at cost, two seats, first row at fifth deck, halfway between home and first base, many games available, Rebecca, 853-2592.

FOR SALE

Colonial-style dining table and four chairs; two large Technics speakers, 100 watts each; Ikea double bed, excellent condition with new mattress; Sears deluxe double bed frame with mattress and box spring; beige sofa and chair; antique and ceramic table lamps; bookshelf; coffee and two end tables; TV stand on wheels; computer/student desk, leave message at 823-9782.

Motorized treatmill, Barbara, Ext. 6580.

Kawasaki dirt bike, excellent condition, Malcolm, 843-7738.

Levelor pleated shade, white, 43 1/2 by 60 inches, new condition, Ext. 2366 or 763-4409 evenings.

Various apartment furnishings, good quality, reasonable offers considered, 823-9461.

FOR RENT

Private island on Georgian Bay with modern cottage and spectacular view, unlimited sailing on a 30-foot sailboat, all meals included, weekends \$500 per couple, weekly rates available on request, David or Susan, 836-9877.

Three-bedroom lakefront cottage on Mill Lake, Parry Sound, weekly or monthly for June, July and August, video available, 1-905-822-9015.

Georgian Bay island paradise, overlooking Parry Sound and Killbear Provincial Park, ideal for families, sandy beach, great swimming and fishing, 822-7705 after 6 p.m.

Spacious bedroom in three bedroom townhouse, bright, clean, quiet environment, laundry, parking, convenient location, five-minute bike ride to campus, 821-6057 or send e-mail to kbent@uoguelph.ca.

Three-bedroom condo, available June 1, \$850 a month, 763-4452.

Furnished two-bedroom cottage on Trent Canal, available weekly or on weekends from June to October, \$495 a week; furnished three-bedroom summer home at Sauble Beach, close to beach, hiking trail and Sauble River, great outdoor activities close by, two three-piece baths, eat-in kitchen, laundry, air conditioned, non-smokers, suitable for three mature couples or two small families, prices vary with season, July and August, \$675 a month inclusive, 824-7551.

Furnished one-bedroom apartment for quiet, non-smoking female, parking, 10-minute walk to campus, \$400 a month inclusive, available Aug. 1, 821-3999.

Three-bedroom house on Mitchell Street for fall semester, five-minute walk to downtown, close to bus route, two baths, finished walkout basement, back deck with picnic table, appliances, children, pets and non-smokers welcome, Pat, Ext. 2719 or Doug, Ext. 4556 or 836-0277 after 6 p.m.

FOR RENT

Room available immediately in shared new house at Kortright and Edinburgh, 30-minute walk to campus, backs on to Zehrs, laundry, close to bus route, 822-2769 after 5 p.m. or leave message.

WANTED

Student-quality oboe in good condition, Fred, 822-7335 or send e-mail to fdahms@uoguelph.ca.

Exchange student looking for roommate from the end of August to December, close to campus, send e-mail to klolson2@students.wisc.edu.

One- or two-bedroom furnished or partly furnished accommodation in central Guelph or surrounding countryside to rent for September to December 1997, John, 709-637-6214 or 709-634-0969 or fax to 709-639-8125.

Someone to share three-bedroom apartment with studio, two full baths, balcony, 12-foot ceilings, six-foot windows, laundry, parking, \$425 a month inclusive, available June 1, Melanie, 837-1196.

Four tickets for my children to attend FACS convocation, June 6 at 10 a.m., 905-627-0532 or send e-mail to sword@fhs.csu.mcmaster.ca.

One ticket for family member for FACS convocation, June 6 at 10 a.m., 416-234-5338 or send e-mail to ba721@freenet.toronto.on.ca.

Experienced full-time day-care provider in the John McCrae Public School area for two young children, must be smoke-free and provide receipts, 837-3397 evenings.

Two- or three-bedroom unfurnished home to rent for professional with small children for July 1, with appliances, laundry and yard, non-smoker, references available, 416-485-0290.

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Care for your dog in my home while you travel, references, Cobi, Ext. 6373, 836-8086 or send e-mail to cdeimmers@uoguelph.ca.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre, fax to 824-7962 or e-mail lgraham@exec.admin.uoguelph.ca. For more information, call Ext. 6581.

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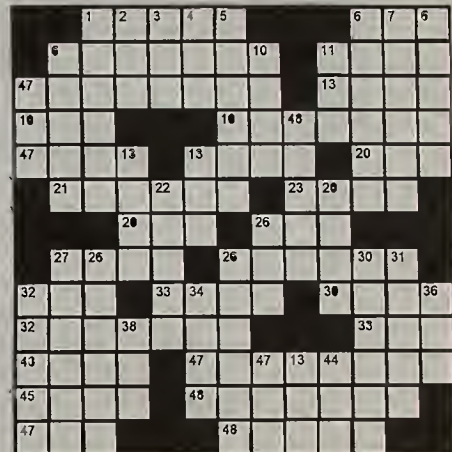
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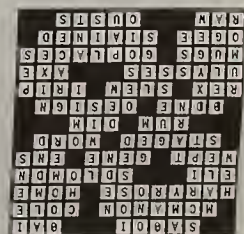


ACROSS

1. Wooden-soled shoe
6. Belfry dweller
9. Carson's long time sidekick
11. Songwriter Porter
12. Henry VIII's ship
13. Residence
14. Yale student
15. King of ancient Israel
17. Turned on the waterworks
19. Siskel or Aulry
20. Printing measures
21. Pul on a show
23. Sentence part
25. Nelson's blood
26. Half-visible
27. Skeleton part
29. Decorative pattern
32. Actor Harrison
33. Sling around
35. Excursion
37. Penelope's husband
39. Chopping tool
40. Drinking cups
41. Allain success
45. S-shaped molding
46. Kind of glass
47. Was a

DOWN

1. Handwriting
2. Poeless Lowell
3. Counter
4. Exclamation of surprise
5. Threw lightly
6. Male kangaroo
7. Dessert nut
8. Prom attendees
9. Men
10. Gas for colored lights
11. Star of "All-American Girl"
12. Hawk cage
16. Novelist Sinclair
18. Mountain lake
19. Precious stone
22. Shot in the dark
24. Leave out
26. Early warning system
27. White whale
28. Life-supporting gas
29. Spanish explorer
30. Kelly and Slick
31. Rejected
32. General talk
34. Table supports
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38. Compass point
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43. Fleur-de-
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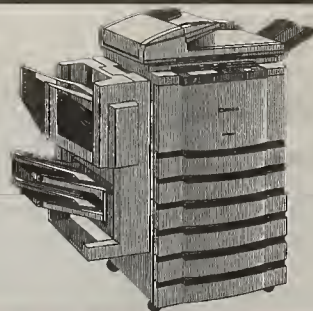
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AT GUELPH

41st
Year

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June 4, 1997

AT A GLANCE

Four nominated for B of G. Four members of the University community have been nominated to run for election to the Board of Governors in the staff/alumnus category. They are Gerrit Bos of Computing and Communications Services, who currently holds the seat, Jocelyn Proulx of the Budget Office, David Rose of the Arkell Research Station and Kim Taylor of the Department of Animal and Poultry Science. The election will be held by mail ballot to be circulated June 6 for return by June 19 at 4 p.m. in the Board Secretariat on Level 4 of the University Centre. The results will be considered and approved by B of G at its June 25 meeting.

Congratulations, grads! Included with this issue of *At Guelph* is a special four-page supplement on spring convocation '97, which will be handed out to guests at this week's convocation ceremonies.

Can we talk? The U of G Debating Society has captured third place in this year's North American competition . . . *page 3*

Staying well. Guelph researchers have confirmed a long-suspected link between gastrointestinal illness and the drinking of contaminated water from private wells . . . *page 5*



Can you dig it?

Dozens of members of the University community turned out May 23 to help plant a flower bed at the corner of Gordon Street and Stone Road in support of the City of Guelph's entry in the national *Communities in Bloom* Competition. At left, rooted to the spot, is a delegation of junior gardeners from the U of G Child-Care and Learning Centre.

Photos - Martin Schwalbe

Dance the night away during Alumni Weekend

June 21 is an evening you may want to set aside to join campus friends and U of G alumni for a big-band dance on Johnston Green. It will be a highlight of Alumni Weekend — dancing under a tent to musical hits from the 1950s to the 1990s.

Organizers invite members of the campus community to join in

the fun. There is no charge for the dance, and music will be provided by Bobby Soul, one of the original Platters, and his Magic Touch Orchestra.

Paulette Samson, director for alumni affairs and development, says the big-band dance is just one of the new events planned for Alumni Weekend, which runs June 20 to 22. "We want the campus community to feel welcome to participate in Alumni Weekend, especially the more than 600 alumni who work on campus," she says. "You'll find that this year's events offer some new opportunities to get together with friends and classmates."

Alumni activities get under way June 20 with a welcome barbecue on Johnston Green at 6 p.m. Later in the evening, there will be an

observatory "Star Watch" presentation and tour.

The University of Guelph Alumni Association and several of its constituent groups will hold annual meetings June 21 as follows:

- OAC, 9 a.m., Macdonald Hall 149
- Mac-FACS, 9 a.m., Hafa 129
- Hafa, 11 a.m., Hafa 121
- CBS, 2 p.m., Alumni House
- UGAA, 3 p.m., Alumni House.

Tours and demonstrations will showcase the campus and the city. Saturday morning bus tours leave Johnston Green at 9:30 a.m. One tour will conclude at the Guelph Food Technology Centre with a presentation and food tasting conducted by Profs. Rick Yada and Doug Goff, Food Science, and Prof. Tanya

MacLaurin, Hafa. A second tour winds up at the Forman Lawrence Multimedia Laboratory for a hands-on introduction to computer-enhanced learning with Prof. Deborah Stacey, Computing and Information Science.

Those who prefer the outdoors can opt for an Arboretum walking tour that leaves Alumni House at 9:30 a.m.

A noon luncheon on Johnston Green hosted by president Mordechai Rozanski will feature several award presentations. Cameron and Eleanor Clark of Kingston will be recognized as UGAA Alumni of Honor. Cameron is a 1953 graduate of OAC; Eleanor graduated from Macdonald Institute in 1954.

See *ALUMNI* on page 3



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LETTERS

English Department committee on sessional employment does not endorse suggestions

I am writing to correct the factual errors concerning practices in the Department of English that were contained in the May 21 letter "Treat Campus Sessionals Fairly." I wish *At Guelph* had consulted me before printing this letter so that such inaccuracies could have been corrected at the time. I suggest that in the future you check the facts before printing unsubstantiated allegations about department practices.

Cherry Clayton's letter misrepresents the practices of the English Department and seeks to preempt the decision-making process of a committee that has only just been constituted and has not yet met. Sessionals in this de-

partment are typically hired on contracts of one to three years, not by the semester. To my knowledge, no sessional has been fired before completing the work assignment of teaching a course for our department. No sessional has ever been asked to teach a course without remuneration or to perform the administrative tasks that are part of faculty responsibilities.

It is true that the English Department has set up a committee to look into conditions of sessional employment in the department. The committee's mandate expressly indicates that any recommendations it makes must comply with the regulations of the

various bodies that govern the conditions of employment and research practices on campus. The suggestions that Cherry Clayton lists are her own. They have not been endorsed by the committee. Indeed, given that the committee has not yet met, they have not even been discussed.

Increasing reliance on sessional labor is an issue that greatly concerns the profession. Inaccurate allegations about the current state of affairs only makes the task of addressing these problems more difficult.

Prof. Diana Brydon
Acting chair, English

London House vote was well-informed

Prof. Alan Filewod says he is puzzled by the comments attributed to me concerning the sale of London House in the May 7 issue of *At Guelph*. Given his involvement with the London semester, I can certainly understand why he is unhappy that Board of Governors accepted with regret the recommendations of both Senate and the Senate Committee on University Planning (SCUP) to sell London House.

Alan Filewod is puzzled, but not puzzled enough to pick up the phone or send me a e-mail to ask if the comments attributed to me reflect my involvement in this decision. Since he did neither of these things, he will not know that I read not just the Senate reports, the five-year cash-flow projec-

tions, information about the recent financial position of the house and the independent appraisal that documented the physical and legal status of the house, but also the very well-reasoned and critical report of Mark Barsanti, who raised serious questions about the reasons for selling the house. Indeed, prior to the motions I voted on, I met with him to discuss his report. I also talked to a member of SCUP who was skeptical about the sale.

I believe it is important to state publicly why one votes the way one does, particularly when interested parties such as Mark Barsanti and others come to the board meeting. At the full board meeting, I and others tried to summarize points made at the prop-

erty committee meeting as well as present our own reasoning. The *At Guelph* report was inevitably partial, but no doubt Alan Filewod will think I am quibbling and trying to wriggle out of a published quote if I question its accuracy and completeness.

I find it regrettable that the discussion has become personalized, which is not to deny the importance of personal responsibility in decision making. But it's a bit rich being criticized for being ill-informed by someone who fires off a letter based on a few words quoted in a newspaper.

Prof. David Prescott
Department of Economics

Associate dean of graduate studies sought for 1998

U of G is seeking an associate dean of graduate studies from the current faculty membership to succeed Prof. Susan Pfeiffer when her second term ends this December. Candidates should have a good record of scholarly achievement and interest in promoting high standards of education and research at the graduate level.

The associate dean shares internal and external responsibilities with the dean. The appointment is a 60-per-cent secondment from academic duties in the home department. The associate dean is

responsible for student matters, including admissions, awards, conflict resolution, progress of students, recruitment and liaison.

The appointment will be for a three- to five-year term with the possibility of reappointment for another three to five years.

Applications and nominations should be submitted to graduate studies dean Alastair Summerlee by Aug. 19. Applicants should submit a curriculum vitae, including a list of publications and research and graduate activities and the names of three referees. □

GRAD NEWS

The final examination of Joan Minstrell, an M.Sc. candidate in the Department of Computing and Information Science, is June 5 at 1 p.m. in Room 212 of the Reynolds Building. The thesis is "Indexing Interaction Design Cases: Towards a Case-Based Aiding System for Novice Designers." The adviser is Prof. Fei Song.

The final examination of M.Sc. candidate Wendy Worthing, Food Science, is June 6 at 9 a.m. in Room 1715 of the OVC Learning Centre. The thesis is "Incorporation of Novel Fatty Acids into Canola Oil Using Lipase From *Mucor miehei*." The adviser is Prof. Alex Marangoni.

The final examination of Allan Kwabiah, a PhD candidate in the Department of Crop Science, is June 16. The seminar is at 10 a.m. in Room 307 of the Crop Science Building; the oral examination begins at 1:30 p.m. in Room 302A. The thesis is "Parameters for Selecting Organic Resources

for Soil Fertility Management in Low-Input Cropping Systems." The adviser is Prof. Neal Stokkopf.

The final examination of M.Sc. candidate Cheryl Dalgado, Microbiology, is June 13 at 9 a.m. in Room 121 of the MacNaughton Building. The thesis is "The Effects of Osmolality, Betaine and the Osmoregulatory Transporter ProP on Growth and P Pilus Expression of *Escherichia coli* Pylonephritis Isolate HU734." The adviser is Prof. Janet Wood.

The final oral examination of PhD candidate Timothy Mutsavanga, Animal and Poultry Science, is June 26 at 1:15 p.m. in Room 313 of the MacKinnon Building. The thesis is "Studies of Amino Acid Metabolism in Isolated Sheep Hepatocytes." The adviser is Prof. Jock Buchanan-Smith. □

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Debaters place third in North America

The U of G Debating Society sure knows how to talk! It placed third in this year's North American University Debating Circuit, beating the likes of Harvard, Yale and Queen's universities. First- and second-place wins went to the University of Western Ontario and Princeton University, respectively.

"We had good coaching, we worked hard and we had fun," says Daniel Guenther, president of the society.

The U of G society has about 25 active student members, 10 of whom participated in the North American circuit throughout the 1996/97 scholastic year. Participants were Guenther, Nathan MacDonald, Sheila Varadan, Philip Abbink, Jason Hatcher, Averill Pessin, Jonathan Chambers, Richelle Smockum, Darrel Murphy and Karim Jaffer.

Guelph's third-place North American ranking was based on five first-place tournament wins

(at York, Carleton, Acadia, McGill and McMaster universities), finalist status in the North American Open Tournament at Western and semi-finalist status at the Canadian National Debating Tournament at Dalhousie University.

A number of honors were captured by individual members. MacDonald was top orator at four tournaments (McGill, Acadia, Western and McMaster), Chambers placed first for public speaking at Acadia, Varadan placed fifth at the Central Canadian Championship in Kingston, Gaffer placed fifth at the York tournament, Guenther placed sixth at York, and Pessin placed fifth at McGill.

The North American University Debating Circuit comprises 17 tournaments at Canadian universities and 23 at American universities.

Tournaments consist of two days of rigorous competition,

during which teams compete with numerous schools in impromptu debating and public speaking on topics such as politics, philosophy and international relations. The teams are narrowed down to top finalists in each category; final rounds consist of open debates and public-speaking matches.

The Canadian teams surpassed U.S. teams because of their ability to "speak captivantly," says Varadan, secretary of the society. "Canadian debaters have a lot of style and flare; it's one thing that stands out."

The U of G Debating Society is founded on the principle of improving oration and training analytical thinking. The society is currently raising funds to attend the World Debating Championships in Greece at the end of the year. In June, team members will compete in a tournament at the University of Waterloo. □

Summer brings a crowd to campus

by Margaret Boyd

From April to August, U of G is alive with an almost endless stream of conferences. Close to 30,000 people from all corners of the globe will visit the University this year to discuss everything from aviation design to international development.

The year's biggest conference is the American Dairy Science Association meeting, which runs June 22 to 27 and expects 2,000 participants. The smallest is a series of floral design sessions in June, with five to 100 participants per session.

New groups to campus this summer include Canadian Coastal (geography), Jamesway Incubator Company, Child Studies and a biomedical conference. Long-standing conferences include the Ontario Recreational

Facilities Association, now in its 41st year, and Ontario Good Roads, in its 34th year.

Conference activity has doubled in the past year, and prospects for 1998 are already well ahead of 1997, says Cyndy Forsyth, manager of Conference Services. Seven conferences in excess of 1,000 participants are scheduled for next year, including the Ontario Summer Games, the Ontario Gymnastics Federation and Canadian Farm Women.

Efforts are under way to increase conference participation in specific markets, such as corporate clients and church groups, she says.

Conference Services owes its success to a collaborative team approach, says Forsyth. A conference directorate, consisting of the Office of Open Learning, Student Housing Services and Hospitality

Services, ensures that all services operate at peak efficiency. A conference planning operations group, consisting of two representatives each from Student Housing, Physical Resources and Hospitality Services, oversees the management of conferences throughout the year.

This team approach also involves other universities and hotels, says Forsyth. If U of G is unable to handle conference requests, they are referred on to other universities. Working in partnership with local hotels, Conference Services provides hotel reservations and related information to conference registrants.

Conference Services runs year round, but summer is the busiest time for conferences because of the availability of lecture halls and residence space. □



The Department of Fine Art has named its print study collection for retired faculty members Walter Bachinski, left, and Gene Chu to recognize their contributions to the University.

Fine art print collection named to recognize work of two retired faculty

A prized print collection in the Department of Fine Art has been named the Bachinski/Chu Print Study Collection in honor of two retired faculty — Walter Bachinski and Gene Chu.

Launched in 1968 as a resource for students to have first-hand experience with examples of historical and contemporary fine art prints, the collection now holds more than 250 works, thanks to the collaborative efforts of three decades of students, faculty and staff, says Prof. Ron Shuebrook, acting chair of the Department of Fine Art.

For many of those years, acquisitions were guided by the expertise of Bachinski and Chu.

From the beginning, the collection has been funded primarily by the proceeds of student print sales. All traditional print media are represented in the collection, from etching and lithography to serigraphy and woodblock. It includes examples of work by such Canadian artists as Alex Colville and Joyce Weiland as well as international artists such as Goya, Rembrandt and Picasso.

In addition to purchased works, many full- and part-time faculty have donated their own and other artists' prints to the collection. Included are works by Bachinski,

Chu, Shuebrook, Prof. Margaret Priest, Stu Oxley and Tony Scherman. The value of the collection is estimated at \$750,000.

"The print collection is a pivotal resource in the Department of Fine Art," says Shuebrook, "so it seems only fitting that it be named for two faculty who played a pivotal role in establishing the collection. This also gives us an opportunity to recognize their many years of service and dedication to the print-making discipline at U of G."

Bachinski joined U of G in 1967 after completing his MA in studio art at the University of Iowa and has had a long, distinguished career as a printmaker, sculptor and painter. His works have been included in solo and group exhibitions in galleries and museums across Canada and abroad. He retired from Guelph in 1993.

Chu joined the University in 1969 after completing his MFA at Claremont Graduate School in California. Well known across Canada as a printmaker, he has shown his lithographs in major international and national exhibitions. He retired from U of G in 1995. □

Alumni to honor four with awards

Continued from page 1

Both have been heavily involved in Third World development through the FAO Small Farmer Development Program for Asia and the South Pacific.

Tom Sawyer of Freelon, who graduated from OAC with a diploma in 1959 and a degree in 1964, will be recognized as Alumni Volunteer of the Year. A tireless supporter for the past 25 years, he has held many volunteer positions with the OAC Alumni Association, OAC Alumni Foundation and U of G's Alma Mater Fund. He recently co-chaired a fund-raising campaign with the diploma in agriculture program for the ACCESS Fund.

OVC will honor 1949 graduate William Mitchell of Guelph as its Distinguished Alumnus. He was instrumental in establishing a veterinary extension department and continuing education programs at the college in the 1950s, then expanded his career into teaching



Alumni House celebrates its 10th anniversary with a reception June 22.

and research to establish epidemiology as a major discipline at OVC.

OVC invites alumni and friends to visit the college for tours of the veterinary museum and Lifetime Learning Centre throughout Saturday. Alumni Weekend guests are also invited to attend a 4 p.m. reception at Alumni House to celebrate the building's 10th anniversary. The former sheep barn was renovated in 1987 as a campus home for alumni. Graduates of 1947 and 1972 will meet for golden and silver anniversary

dinner, and the big-band dance begins at 9 p.m.

The weekend concludes June 22 with an ecumenical church service on Johnston Green at 8:30 a.m., followed by a farewell breakfast.

Samson says campus alumni can register for weekend events by calling Alumni House at Ext. 6544 or by sending e-mail to alumni@uoguelph.ca. And please call to RSVP if you're planning to dust off your dancing shoes for the big-band dance. □

RESEARCH AWARDS

Agriculture and Agri-Food Canada has provided:

- \$21,000 to Prof. Karl Meilke, Agricultural Economics and Business, in support of the International Agricultural Trade Research Consortium;
- \$40,000 to Profs. George Thurtell and Claudia Wagner-Riddell, Land Resource Science, for "Field Measurements and Modelling of Field Data Sets"; and
- \$122,946 for two years to Prof. Duane Falk, Crop Science, to perform field trials of oat lines.

The Alberta Research Institute awarded \$35,086 to Prof. Ron Ball, Animal and Poultry Science, for "Development of a New Method for Measuring Changes in Muscle Proteins That Occur During the Tenderizing Process of Post-Mortem Aging."

Prof. Don Richardson, Rural Extension Studies, received \$10,600 from Bell Canada to study the "Impact of Rural Ontario Telecommunication Upgrades."

BASF Aktiengesellschaft has provided Prof. Chris Hall, Environmental Biology, with \$78,000 to study the "Physiological and Biochemical Basis for the Antagonism of the Phytotoxic Action of BAS 635 H by Bentazon in Wild Mustard and Lambsquarters Plants."

The J.P. Bickell Foundation awarded \$24,333 to Prof. Dev Mangroo, Chemistry and Biochemistry, for the project "Control of Eukaryotic Gene Expression at the Translational Level Using Suppressor tRNA."

Prof. Allan King, Biomedical Sciences, received \$15,000 from the Cattle Breeding Research Council to study "Gamete and Embryo Response to Stress."

The council also provided the following support in the Department of Animal and Poultry Science:

- \$75,000 to Profs. Jack Dekkers, Paul Boettcher and Jim Wilton for their work on "Genetic Improvement of Food and Leg Disorders and Other Functional Traits in Dairy Cattle Through Indirect Selection";
- \$75,000 to Wilton and Mike Lohuis to support a research professor in breeding strategies for beef and dairy cattle; and
- \$75,000 to Prof. Larry Schaeffer for a "Genetic Evaluation of Dairy Cattle for

Production and Conformation Traits."

Prof. Rod Merrill, Chemistry and Biochemistry, has been awarded \$69,849 a year for three years by the Medical Research Council to study "Structure and Function Relationships of Protein Toxins: Catalytic Mechanism of *Pseudomonas aeruginosa* Exotoxin A." He also received \$49,722 a year for two years from the Canadian Cystic Fibrosis Foundation for "Development of Inhibitors of *Pseudomonas aeruginosa* Exotoxin A."

The CCF Foundation has also provided:

- \$15,295 to Heather Rochetta Currie for renewal of her studentship in the Department of Microbiology to work on the project "Genes Involved in the Biosynthesis of *Pseudomonas aeruginosa* Lipopolysaccharide"; and
- \$37,420 a year for two years to Prof. Joseph Lam, Microbiology, for his work on "Regulation of Lipopolysaccharide Biosynthesis in *Pseudomonas aeruginosa*." Lam will also receive \$15,295 a year for two years to support the studentship of Mauricia Jodi Matewish on the project "RFA Genes."

Prof. Truman Phillips, Agricultural Economics and Business, has received \$8,000 from the Canadian University Consortium on Health for International Development for "Food Systems and Health Alliance — the Canadian Arm."

The Canadian Network of Toxicology Centres has provided:

- \$30,000 to Prof. Keith Solomon, Centre for Toxicology, for the computer game *Peril* and \$58,000 for a "Quantitative Risk Assessment";
- \$90,000 to Prof. Glen Van Der Kraak, Zoology, for his work on "Reproductive Endocrine";
- \$15,000 to Prof. Herman Boermans, Biomedical Sciences, for a project entitled "Immunotoxicology";
- \$100,000 to adjunct professor Kristin Day, Environmental Biology, for a "Quantitative Risk Assessment"; and
- \$45,250 to Prof. Bev Hale, Land Resource Science, for her work on "Metal Speciation."

Prof. Steve Bowley, Crop Science, has been awarded \$41,500 for two years by the Canadian Turfgrass Research Foundation

to study "Genetic Transformation of Creeping Bentgrass to Enhance Environmental Stress Tolerance."

Dow Elanco has provided \$54,112 to Prof. Mark Sears, Environmental Biology, for the project "Spinosad Insect Control Product."

Prof. Jim Corrigan, Environmental Biology, received \$10,000 from Ducks Unlimited Canada to study "Future Directions in Biological Control of Exotic Plants in Natural Habitats."

Prof. Ron Brooks, Zoology, received \$20,000 from Environment Canada to study the "Effects of Contaminants on Wildlife" and \$5,000 from the Ontario Ministry of Natural Resources for a "Recovery Plan for the Wood Turtle in Ontario."

Environment Canada also awarded \$20,000 to Prof. Len Ritter, Centre for Toxicology, for "Evaluating the Potential Ecological and Human Health Risks of Endocrine Disrupting Chemicals." The Mining Association of Canada awarded Ritter \$20,000 for a "Multimedia, Multipathway Exposure Assessment for Cadmium — A Feasibility Study" and \$50,000 for "Metals in the Environment — Establishment of a Secretariat." He also received \$15,000 from the Ontario Soil and Crop Improvement Association for a video on pesticide exposure.

Prof. Frances Sharom, Chemistry and Biochemistry, received \$362,125 over three years from the National Cancer Institute for "The Molecular Basis of Multi-Drug Resistance: P Glycoprotein Structure and Function."

Human Resources Development Canada, Canada-European Community, has provided \$160,000 for three years to Prof. Allan King, Biomedical Sciences, for "An Interactive Curriculum in Reproductive Biology" and \$160,000 for three years to Prof. David Swayne, Computing and Information Science, for an "EU-Canada Curriculum on Environmental Informatics." Swayne also received \$15,000 from the Ontario Federation of Agriculture for the project "World Wide Web as a Two-Way Information Source for Agriculture."

Prof. Ken Leslie, Population Medicine, received \$98,450 from Pharmacia and Upjohn Animal Health awarded for "An Evaluation of the Hymast Culture System as an Aid in Decision-Making for Clinical Mastitis Therapy."

The Environmental Capacity Enhancement Project has provided:

- \$27,000 to Prof. Tom Nudds, Zoology, for "Influence of Land-Use Changes on Waterfowl Abundance and Distribution in a Semi-Arid Area of South Africa";
- \$18,300 to Prof. John Fryxell, Zoology, for "Resource Economics, Wildlife Harvesting and Biological Conservation of the Serengeti-Mara Ecosystem";
- \$15,000 to Prof. Michael Coss, Land Resource Science, for "Transport of Bacteria Through Soil";
- \$5,967 to Prof. Robert Brown, Landscape Architecture, for "A Landscape Eco-

logical Approach to Sustainability: Application of the Communicative Catchment to Lake Chiwa, Malawi".

- \$15,000 to Prof. Farokh Afshar, University School of Rural Planning and Development, for "Local Government, Privatization and Community Management: Assessing Appropriateness Through These Models in Three Cases of Water-Supply Management in Angola"; and
- \$14,990 to Prof. Ray Kostashuk, Geography, for "The Development of a Hydrological Decision Support System for the Mhlutze River Catchment Area in Kwazulu/Natal, South Africa."

Germantown International Limited has awarded \$104,000 to Profs. Doug Dalgleish and Doug Goff, Food Science, for the project "Correlations Between Physical and Biochemical Properties of Ice Cream Mix and Frozen Ice Cream."

Prof. Stewart Hiltz, Land Resource Science, received \$24,000 from the Ontario Forestry Association for a "Community Woodland Steward Program."

Prof. Shai Barbut, Animal and Poultry Science, has received \$20,550 from Monsanto for "Use of Gums in No-Fat Frankfurters."

Natural Resources Canada, Canadian Forest Services, provided \$17,000 to Prof. Jack Trevors, Environmental Biology, to study the "Effect of Latitude on Soil Microbial Diversity."

Martek Biosciences Corporation awarded \$27,800 to Julie Conquer and Prof. Bruce Holub, Human Biology and Nutritional Sciences, for the project "Concentration of the Fatty Acid Docosahexaenoic Acid in Serum, Seminal Plasma and Sperm of Fertile and Infertile Men."

The University's Research Board, Northern Studies Committee, is providing faculty with the following funding to support student work in the north: \$4,500 to Prof. Richard Kuhn, Geography; \$4,000 to Prof. Peter Martini, Land Resource Science; \$3,500 to Prof. Don Reid, Rural Planning and Development; \$2,500 to Prof. Kiyoko Miyashita, Geography; \$3,000 to Prof. Elizabeth Boulding, Zoology; \$9,000 to Prof. Paul Hebert, Zoology; and \$5,643 to Prof. Jim Ballantyne, Zoology.

KBM Forestry Consultants Inc. and NSERC's Industry Student Scholarship Program awarded \$35,000 for two years to Prof. Andrew Gordon, Environmental Biology, in support of Richard Gray on the project "Below-Ground Competition and Interactions in a Tree-Based Intercropping System."

NSERC's Industrially Oriented Research Program has provided the following support:

- \$46,200 with matching funds from Environmental Science and Technology Alliance Canada (ESTAC) to Prof. Bob Chapman, Mathematics and Statistics, for "Methodology for Performance Evaluation of Ex Situ Remediation";
- \$103,463 over three years with matching funds from Unilever to Prof. Doug Goff, Food Science, to study the "The Functional Role of Proteins in Complex Dairy Systems";

■ \$57,590 with matching support from ESTAC to Prof. Chris Hall, Environmental Biology, for "Development of Recombinant-Phase Antibodies for Detection of Pesticide Residues in Soil and Water";

■ \$42,000 for two years with a second-year match from Dairy Farmers of Canada to Prof. John Cant, Animal and Poultry Science, for "Strategic Use of Dietary Trans Fatty Acids to Depress Milk-Fat Production by Dairy Cows"; and

■ \$87,500 a year for four years with matching funds from Dairy Farmers of Ontario to Prof. Mansel Griffiths, Food Science, for "Studies on Micro-organisms in the Dairy Industry: Their Source, Detection, Elimination and Potential for Producing Value-Added Products."

NATO has provided collaborative research grants of \$5,800 to Prof. Donald Sullivan, Physics, for the project "Theory of Interfacial Phenomena in Complex Fluids" and \$7,920 to Prof. Bill Smith, Mathematics and Statistics, for "Integral Equation Studies of Simple and Molecular Fluids at Solid Interfaces."

The Ontario Association of Bovine Practitioners awarded \$11,025 to Prof. Wayne Martin, Population Medicine, to study "Hypophosphataemia in Periparturient Dairy Cattle."

The Ontario Berry Growers' Association awarded \$15,000 to researcher Becky Hughes of Kempenville College for her research on "Tissue-Cultured Raspberries for the Ontario Plant Propagation Program."

Prof. Dave Hume, Crop Science, was awarded \$38,000 by the Ontario Canola Growers Association, CanAmerica Foods, for work on canola breeding.

The Ontario Corn Producers' Association provided \$39,366 to Prof. Eric Beauchamp, Land Resource Science, for "Enhancing Ontario Farm Environmental Quality Through Improving Efficiency of Nitrogen Utilization in Field Crops."

The Ontario Ministry of Natural Resources has provided \$20,800 to Prof. Roy Danzmann, Zoology, for "An Ecological Genetics Study of Rainbow Trout in the Lake Erie Basin" and \$12,000 a year for two years to Prof. Moira Ferguson, Zoology, for "An Ecological Genetics Study and Mixed-Stock Analysis of Rainbow Smelt in the Central and Eastern Basins of Lake Erie."

In the Department of Crop Science, the Ontario Soybean Growers' Marketing Board has awarded \$8,000 to Prof. François Tardif for a "Spatially Variable Spraying System for Precision Weed Control" and \$14,000 to Prof. Tony Vyn, for the project "Towards Optimum Productivity for Soybeans: Potassium, Zone Tillage and Row Width Factors."

Pioneer Hi-Bred Limited awarded \$16,362 to Prof. Steven Rothstein, Molecular Biology and Genetics, for "Pulse-Field Gel Electrophoresis Equipment."

The OAC Dean's Office awarded \$10,000 to Prof. Heidi Schraft, Food Science, as start-up funds for the project "Molecular Techniques to Develop a Deeper Understanding of Microbial Biofilms." □

Lease Space Available

The University Centre at the University of Guelph is currently accepting proposals from individuals and companies to lease space. The University Centre is a major building on campus offering a variety of university and retail services to a community of 16,000. There are spaces available from 300 to 2,500 square feet. The space cannot be used for food or bar operation.

The successful business will have the freedom to operate and manage the business within limited conditions associated with a University environment. Any renovations, additions and business taxes are at the expense of the lessor. The respondents will be expected to demonstrate the ability and resources to operate a business successfully.

Responses should include an outline of the type of business, product line, medical/professional services proposed and should be submitted to:

Mr. Wm. McNaughton, Director
University Centre Administration
Room 266, University Centre
University of Guelph, N1G 2W1
or FAX 1-519-837-8633

Convocation '97



UNIVERSITY
of GUELPH



Convocation
is the most important event
in the life of a university,
when families
come to campus to celebrate
educational achievement
and the beginning
of a new chapter
in the lives of graduates.



Stephanie Ounpuu cares about your health

Stephanie Ounpuu describes herself as a home-grown professor of family studies. She has earned three degrees (B.A.Sc. '85, M.Sc. '88 and PhD '97) from U of G's Department of Family Studies and is now an assistant professor. Originally from Toronto, she has been awarded the University's Forster Medal in recognition of her academic achievement, motivation, leadership and citizenship. The graduate award is named for former U of G president Donald Forster.

Ounpuu splits her time between the Guelph campus and the teaching health unit at the Hamilton-Wentworth Department of Public Health Services, where she is continuing her doctoral research focus on community-based nutrition education and the psychosocial factors affecting eating behavior.

Ounpuu was attracted to community-based research because she saw a need for ongoing study to support public health programs. She is interested in nutrition, which she says is implicated in two of Canada's major killers —

heart disease and cancer.

"We're seeing a move of health-care responsibility to the community, where there is clearly a need for nutrition programs and research to support those programs," she says.

Public health programs touch people at all stages of life, says Ounpuu. And historically, public health efforts have had a far greater impact on the health of the population than have many high-end medical technologies.

On campus, Ounpuu has been active on college committees and with the Graduate Students' Association. She was a member of the Ontario Ministry of Health review committee to analyse data from the Ontario Health Survey Nutrition Report.

She took a leadership position in the area of nutrition research while completing a PhD at the University of Rhode Island Cancer Prevention Research Centre. Her reputation as a scholar has led many other researchers to seek her guidance and advice.



Laurie Halfpenny plays to work better

Laurie Halfpenny says she performs better academically when she has at least two hours of soccer practice a day. Captain of the women's varsity team, this university all-star scores well on and off the field. She had the highest entrance marks of any undergraduate student enrolled at Guelph in fall 1993 and is graduating this spring with the highest marks in the class of 1997. She won a President's Scholarship, U of G's most prestigious entrance award, and will be awarded this year's Winegard Medal. The top undergraduate prize is named in honor of former Guelph president Bill Winegard.

The engineering student has also received many other academic awards, including a Canada Scholarship, a Natural Sciences and Engineering Research Council research grant and the National Research Council Women in Engineering and Science Award. She was one of 14 Ontario finalists for a Rhodes Scholarship.

Key to her nomination for the Winegard Medal is Halfpenny's record of involvement in University and

community activities. She chaired the Athletics Advisory Council and Women's Intercollegiate Council, sat on Board of Undergraduate Studies committees and chaired the Student Senate Caucus. She grew up in Guelph, so she's right at home coaching soccer in a city league and playing on a Waterloo regional women's team.

Halfpenny says the best thing about the University of Guelph is the friendliness of the campus and faculty, and she's not in any hurry to leave. This summer, she's working on a Guelph environmental engineering project to evaluate the pollution coming from diesel spills in Northern Ontario. This fall, she begins graduate work on campus in biological engineering in the combined fields of medicine, engineering and computers. Her research will involve the development of a neural network to analyse MRI images of the brain that may eventually be used to diagnose brain diseases and injuries. Eventually, she hopes for a career in research or university teaching.

College nominees for the Forster Medal:

- Arts — Mani Haghighi, MA Philosophy
- CSS — Shaun Newsome, PhD Industrial/Organizational Psychology
- FACS — Stephanie Ounpuu, B.A.Sc. Applied Human Nutrition
- OAC — Marvin Faber, PhD Environmental Toxicology
- OVC — Chandler Celly, PhD Biomedical Sciences and Clinical Studies

College nominees for the Winegard Medal:

- Arts — Rebecca Langstaff, BA Fine Art and Biology
- CBS — Diana Herrington, B.Sc. Honors
- CPES — Laurie Halfpenny, B.Sc. (Eng.)
- CSS — Galen Countryman, BA Management Economics
- FACS — Melanie Dempsey, B.A.Sc. Consumer Studies
- OAC — Tanya Ditschun, B.Sc. Food Science
- OVC — Stephen LeBlank, DVM

They're the tops!

Governor General's Medals are awarded each spring to the graduating students with the top marks in a graduate program (gold), undergraduate degree program (silver) and a diploma program (bronze). Meet the 1996/97 medal winners!

Gold — Cora Cluett, Master of Fine Art

After earning an undergraduate degree at the Nova Scotia College of Art and Design in Halifax, Cora Cluett (top right) came to Guelph to study photography, but eventually switched her focus to painting. She has shown at the Art Gallery of Ontario in Toronto and at the Art Gallery of Hamilton. Her work sits on the edge of abstraction, but contains images of computer technology and computer language. In addition to painting, she hopes to pursue a career in university teaching and is currently teaching in Guelph's Department of Fine Art.

Silver — Laurie Halfpenny, Bachelor of Science in Engineering

Laurie Halfpenny is also the recipient of the Winegard Medal for all-around achievement in an undergraduate program. See above.

Bronze — Annette Reed, Ontario Diploma in Horticulture

After working in Toronto for several years as a laboratory technologist, Annette Reed said goodbye to the daily commute and followed her love of gardening into Guelph's diploma program in horticulture. She says being a mature student helped her through some of the required courses, and her husband's encouragement enabled her to stay at the top of the class. Convocation will be a family affair with her children, Geoffrey and Brianna, on hand to see Mom receive both a university diploma and an academic medal (bottom right).

"It will be great to have them at the graduation ceremony to show them that education is important," says Reed.



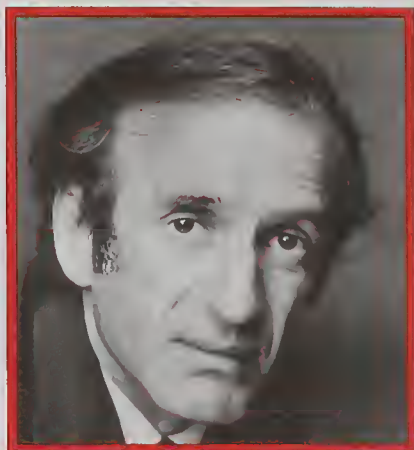
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Contributors: Barbara Chance, Mary Dickieson, Linda Graham

Photography: Martin Schwalbe



Convocation '97



Elie Wiesel

Honorary degree recipient Elie Wiesel fills the un-welcome and painful role as humankind's conscience. A Holocaust survivor, he is a remarkable writer and speaker whose words challenge us to stop and reflect on the horrors caused by individuals and regimes in the name of ideologies of destruction. Currently Andrew Mellon Professor in Humanities at Boston University, he was born in Romania and educated at the Sorbonne in Paris. He is the author of more than 40 books, including *The Silence of the Jews*, *Four Hasidic Masters* and *From the Kingdom of Memory*. In each book and article, Wiesel's message draws on his own experiences as a prisoner at Auschwitz and Buchenwald. His words sharpen the mind and test the soul as they remind us of the horrors of the Holocaust and the consequences of not speaking out against intolerance. Wiesel has received numerous honors, including the Nobel Peace Prize in 1986, U.S. Presidential Medal of Freedom, Martin Luther King Jr. Award, U.S. Congressional Gold Medal of Achievement, Ellis Island Medal of Honor, Jewish Heritage Award and Grand Officer, Légion d'honneur.

he won his second Pulitzer Prize for *The Ants*, a collaborative work with his colleague Bert Hölldobler. Wilson has since labored in the cause of biodiversity, putting much effort into attempts to halt or slow the denudation of the tropical rainforests. He already holds several honorary degrees and has received many other honors, including the Royal Swedish Academy of Science's Crafoord Prize.



John Kean

Honorary degree recipient John Kean has guided the Canadian Standards Association (CSA) into a world leadership position, thereby contributing to improvements in the quality of life both in Canada and around the world. The CSA has led the world in recognizing the importance of how consumers use products and in making consumer representation pervasive in all its activities.

Kean led the CSA's work in developing the CSA Z299 series of quality standards, which formed the basis for the International Organization for Standardization (ISO) 9000 series of standards, the world's most universal and highly respected standards for quality management. As a result of his leadership, Kean was awarded — on behalf of Canada — the ISO 9000 secretariat, which recognizes world leadership by the ISO. He has served on many organizations, including the Standards Council of Canada, the ISO Technical Management Board and the Quality Management Institute.

Kean also pioneered CSA integration of academic knowledge, bridging the gap between the intellectual pursuits of university researchers and the practical applications of their work. U of G has been represented on many CSA standards committees, and the CSA has provided assistance to graduate and undergraduate students and faculty in their academic work.



Ole Nielsen

Former Ontario Veterinary College dean Ole Nielsen is being named an honorary fellow of the University of Guelph in recognition of his achievements here and in

the global community. He served with distinction as dean of the Western College of Veterinary Medicine at the University of Saskatchewan before joining OVC and played a key role in shaping the course of both colleges. At Guelph, he was instrumental in creating the Lifetime Learning Centre and he spearheaded Pet Trust, a program that raises private donations for health-related projects on companion animals. He represented the University nationally and internationally, participating in a significant number of advisory bodies related to veterinary education and agricultural research programs in Canada, the United States and Africa. He was able to combine administrative responsibilities with scholarly activities, resulting in more than 50 publications in scientific journals.

Nielsen has participated in a number of academic, research and professional bodies and has been president of the Canadian Veterinary Medical Association, chair of the Institute for Northern Studies, chair of the U of G Health Sciences Council and chair of the board of trustees for the International Laboratory Research on Animal Disease in Nairobi, Kenya. Since retiring from OVC in 1994, he has remained active on issues of global importance, including the environment, agricultural technology and food production.



Deborah O'Connor

Deborah O'Connor is a fast-tracking research scientist whose sense of responsibility has led her to direct her many talents toward the public good. She has been awarded the University of Guelph Alumni Association 1997 Alumni Medal of Achievement in recognition of her work in human nutrition.

O'Connor earned an undergraduate degree in applied human nutrition from the College of Family and Consumer Studies in 1983 and went on to complete master's and doctoral studies at the University of Illinois. With PhD in hand, she returned to Guelph in 1988 as an assistant professor in the program where she started her own studies.

During her seven years on faculty, O'Connor was recognized as an outstanding teacher and an energetic and competitive researcher. She quickly gained an international reputation for her research on folic acid nutrition in human infants and was invited to speak at several international congresses.

She has served as a consultant to Health and Welfare Canada on a number of projects, including new national dietary guidelines for pregnancy. She was a principal investigator on a large interuniversity research program that involved the study of children in different day-care arrangements, a project that has real significance for public policy formation in the area of child-care and public health nutrition planning.

Ready for new challenges, O'Connor moved to the private sector in 1995 and quickly took a leadership role in the pediatric research conducted by Ross Products Division of Abbott Laboratories in Columbus, Ohio. She is also an adjunct professor at Ohio State University and is working to establish predoctoral opportunities in industry that might benefit future graduates.



Edward O. Wilson

Edward O. Wilson, a Pulitzer Prize-winning biologist, is being awarded an honorary degree for his work on the ecology and evolution of social insects. Born in Alabama, he has had a distinguished career as researcher and teacher and holds the Pellegrino University Fellowship at Harvard University, where he has been on faculty since 1951. Wilson made his mark in science with seminal studies on the biogeography of the ants of the South Pacific, work that led to collaboration with the late Robert MacArthur in the 1960s. Their collaboration led to an equilibrium theory of island biogeography that is one of the landmarks in 20th-century organismic biology. In the 1970s, Wilson began to study the new discipline of the evolution of animal social behavior. His work *Sociobiology: The New Synthesis* was followed by the Pulitzer Prize-winning book *On Human Nature*, dealing with the sociobiology of our own species. In 1990,

Completing the academic circle

Convocation is the one event where the whole educational team is on board — students and faculty, parents and families.



Adding the personal touch

The University of Guelph is known for its impressive outdoor ceremonies at spring convocation, but many would be surprised to learn that the tradition originated from necessity rather than style. Guelph graduates first moved outdoors during the postwar years when class sizes at OAC swelled beyond the capacity of War Memorial Hall. The ceremony on Johnston Green was revived by the Aggies in 1978 when the B.Sc. class grew to 299 graduates. There were 1,700 graduates in all that year; more than 2,000 will convocate this spring in seven different ceremonies.

Mother Nature often plays a significant role in U of G's outdoor ceremonies, where chipmunks, birds and an occasional dog have joined in. Some graduates have worn gloves for the brisk walk across campus; more often, shorts and sandals appear under the black robe. A few Guelph graduates have heard thunder while waiting to receive their degrees, but none have ever been rained on during an outdoor ceremony.

In inclement weather, spring convocation is held in the Athletics Centre, but fall and winter ceremonies continue to be held in War Memorial Hall. In all venues, the most critical part of the preparation for convocation is getting everyone lined up for the processional. That responsibility falls to parade marshal Prof. Ken Fisher, Biomedical Sciences, who has orchestrated Guelph convocations since the early 1980s. He and his team of faculty ushers keep things moving and try to add the personal touch that U of G ceremonies are famous for. As each new graduate leaves the platform, he or she finds the welcoming hand of a professor and an alumnus of the University.

Historical photo files show us that convocation at Guelph has always been a memorable occasion. In the 1940s and 1950s, Macdonald Institute's diploma graduates made their own white dresses for the ceremony. Some graduates throw kisses to the crowd, give a high sign or carry a placard with a personal message for Mom and Dad.

Pauline McGibbon added a flair to the ceremony in 1977 when she arrived in a horse-drawn carriage for her installation as chancellor. In 1979, she was whisked away by an OPP helicopter that set down on Johnston

Green just moments after she conferred the degrees.

Convocation guests and graduates alike were startled into attention during one rather lengthy speech when a drowsing organist fell off his chair in the balcony of War Memorial Hall.

In 1983, Canadian singer Jan Rubes performed after receiving an honorary degree, and children's writer Jean Little's seeing-eye dog received special recognition when the author was honored in 1990.

Current chancellor Lincoln Alexander made a plea for human rights during his 1991 installation ceremony, and president Mordechai Rozanski brought tears to the eyes of many when he spoke at his own 1993 installation about the freedoms we enjoy in Canada. The son of Holocaust survivors, he emigrated with his parents from Poland in 1953 and was educated in Montreal. Rozanski's career move to Guelph was, in a sense, a Canadian homecoming after a 25-year academic career in the United States.

Tears often appear at convocation ceremonies, as graduates share a special time with family and friends.

Holding on to tradition

The University of Guelph convocation ceremony is steeped in tradition and symbolism, with a measure of theatrics thrown in to help make this the most memorable day of a graduate's university experience.

Each convocation begins with a processional of dignitaries, professors and graduating students, bedecked in flowing black robes and led to the platform by a beadle carrying the University mace. An instrument of war in the Middle Ages, the mace is now carried as a symbol of the authority of the University as an educational institution. A gift from the citizens of Guelph, the U of G mace is crafted of silver and decorated with stone from the Johnston Arch, pine from Massey Library and metal from an old Ontario farm implement. The head is a rep-

lica of the crown of Queen Victoria, during whose reign the founding colleges were established. The crown is decorated with native Canadian stones and the insignias of Queen Elizabeth II and the three original colleges. Enclosed in the head of the mace are four plaques bearing the coats of arms of Canada, Ontario, the City of Guelph and the University of Guelph. Symbols on the main shaft represent the arts, the sciences and various activities of the colleges.

The beadle — whose predecessors woke sleeping parishioners in the early Church of England — now places the hood on graduates as they kneel before the chancellor to beg (symbolically, of course) for their degrees. In today's ceremony, the chancellor grasps each graduate's hands as he confers their degree.

The tradition of the academic gown also dates from the Middle Ages when loose outer robes were worn by theologians for warmth. A black robe became the traditional dress of professors in the early English universities and evolved into the current use as ceremonial robes. Around 1900, colorful hoods were added as a way of distinguishing one university from another. The color of the lining signifies the university; the band around the edge of the hood denotes the course of study. University of Guelph hoods are red and gold on a black background. The outer band is one of nearly two dozen colors, depending on the graduate's degree program. Undergraduate and master's graduates wear black robes at Guelph. PhD candidates wear a royal blue silk.

U of G has not adopted the mortarboard or cap, although some faculty wear caps typical of those worn at their own alma mater.

Before the University of Guelph was established in 1964, graduates of the founding colleges were awarded degrees under the authority of the University of Toronto. The first U of G convocation was held May 20, 1965. It was an auspicious occasion when J.D. MacLachlan and George Drew were installed as U of G's first president and chancellor. The first honorary degree was awarded that day to John Kenneth Galbraith, a 1931 graduate of the Ontario Agricultural College who had built a reputation as one of the leading economists in the United States. Now professor emeritus of Harvard University, Galbraith shared the stage in 1965 with 253 recipients of undergraduate degrees and 137 diploma graduates.



A bonnie gift. Thanks to funding from the Scottish Studies Foundation, U of G's Scottish studies program has refurbished its office in Room 253 of the Mackinnon Building and hired a part-time staff member. The room was officially opened during the annual Scottish studies colloquium May 10. From left are Prof. Elizabeth Ewan, History; Prof. Iain Campbell, provost and vice-president (academic); Allan McKenzie, president of the Scottish Studies Foundation; and Profs. Linda Mahood and Catherine Kerrigan, History.

Photo - Martin Schwalbe

Contaminated wells linked to illness

by Margaret Boyd

For the first time in North America, a study has shown a link between gastrointestinal illness and the drinking of private well water contaminated by *Escherichia coli* bacteria. Although long suspected, the link has never before been demonstrated.

The epidemiological study conducted at U of G found that farm families are twice as likely to suffer from gastrointestinal illness (vomiting and diarrhea) if they drink private well water contaminated with *E. coli*, an indicator bacterium for the presence of fecal contamination. The study looked at a group of 188 farm families in southern Ontario.

"These results are not a cause for alarm, although the study highlights the need for well owners to test their wells regularly throughout the year," says Prof. Jeff Wilson, Population Medicine, who conducted the study with Prof. Michael Goss of the Centre for Land and Water Stewardship and several postgraduate and graduate students.

The study found that the contamination of the wells tended to be episodic in nature and was more prevalent in the summer than in the winter.

For the study, well-water samples were collected five times over the course of a year, from February 1994 to February 1995. The samples were tested for the presence of *E. coli* and total coliform bacteria at the Palmerston Public Health Laboratory, Minis-

try of Health. Nitrate and pesticide residues were also monitored during the study.

Families involved in the study agreed to keep diaries documenting gastrointestinal illnesses and symptoms and filled out questionnaires about their wells and lifestyles. The study was limited to an examination of gastrointestinal illnesses.

The 188 families in the study were selected from 1,300 families who participated in a 1991/92 Ontario farm ground-water quality survey, which found that 20 per cent of provincial wells exceeded the Ontario drinking-water objectives for fecal coliform bacteria.

Contamination of wells may result from certain farm practices and private sewage systems and can be exacerbated by poorly maintained wells. Drinking-water contamination is associated with a variety of intestinal illnesses in humans, including giardiasis, which causes cramps, diarrhea and abdominal bloating, and cryptosporidiosis, which also causes diarrhea.



Owners concerned about the safety of their wells should contact local health units. Complimentary test kits are available from local health units or from public health laboratories, which also conduct the analysis for bacteriological contamination. Owners can obtain information about the remedial treatment of wells and well maintenance from health units, local representatives of the Ontario Ministry of Environment and Energy and licensed contractors.

"Owners need to know that they are responsible for the maintenance of the structure of their wells and have wells inspected regularly," says Goss.

The study was funded by Agriculture and Agri-Food Canada and Health Canada. □

International study aims to ease challenges for children of gay fathers

by Margaret Boyd

A study looking at how gay fathers deal with "coming out" to their children hopes to develop suggestions and information for gay families, educators and therapists.

Currently, there is a lack of reliable and helpful information for gay fathers and their children, says Dave Vervoort, a gay father of a young child and a graduate student in the Department of Family Studies.

His study is believed to be the first large-scale international study of the highly charged process of gay fathers coming out to their children.

"There are different challenges and processes at work," says Vervoort. "I want to look at the tremendous variety of fathers' perceptions of their own and their children's experiences. The little research available has been done on very small samples and usually with a local, homogeneous sample."

A common assumption is that the age of children has an impact on their ability to adapt after learning about their father's sexual orientation, says Vervoort. Some younger children adapt naturally, he says, but even for them, and especially for older children, homophobia experienced within the school system and on the playground can prove devastating.

He hopes to find ways of easing this by providing information to schools, parents and teachers to create a less hostile environment to gay families.

"Small things can do a lot," he says. "One gay father found that an overall welcome from the school principal to parents and students from visible minorities, single-parent families and gay

families at the beginning of the school year was extraordinarily helpful."

Vervoort's study, which is being posted on the World Wide Web to obtain a wide response across North America, will look at the diversity of experiences among gay fathers, including those in blended families, in which two gay fathers each bring children to a relationship. He hopes to receive 200 responses to his questionnaire.

There are an estimated 135,000 gay fathers in Canada, and that means there are hundreds of thousands of children of gay fathers. Research shows that children of gay parents are no more likely to be gay than the rest of the population and that they tend to grow up to be open-minded individuals.

Vervoort believes progress is being made towards greater acceptance of gay families, "but it's not happening fast enough to protect many of these children from destructive experiences."

The questionnaire can be found on the World Wide Web at <http://www.uoguelph.ca/~davidv>. □

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Community

NOTICES

Retirees gather

The U of G Retirees' Association will hold its annual meeting June 9 at 9 a.m. at the Arboretum Centre. The annual Retirees' Luncheon begins at 11:30 a.m. in Peter Clark Hall. Transportation from the Arboretum to the luncheon has been arranged.

Appreciation night

The Ontario Public Interest Research Group-Guelph is holding its fourth annual Environment Week Community Appreciation Night June 5 at 7:30 p.m. at the Woolwich Arms, 176 Woolwich St. OPIRG will present its Bonnie McCallum Award to Prof. Hugh Whiteley, Engineering. Everyone is welcome. Admission is free. OPIRG will hold its third annual environmental bike tour June 15. It begins at 11:45 a.m. at the covered bridge off Gordon Street. For more information, call 824-2021.

Summer Fun Club

Guelph Museums will run a Summer Fun Club for children aged five to 10 July 21 to 25. The program runs mornings at McCrae House and afternoons at the Guelph Civic Museum. Cost is \$10 per half day, \$20 per full day. For information, call 836-1221.

Focus on nutrition

The Department of Human Biology and Nutritional Sciences continues its graduate seminar series June 2 with Prof. Laura Nagy discussing "Regulation of Glucose Transport: Glut 4 Vesicle Trafficking." On June 9, Michael Dell of Hoffman LaRoche Ltd. exam-

ines "Pharmaceuticals and the Management of Obesity." Seminars begin at 10 a.m. in Room 141 of the Animal Science and Nutrition Building.

Happy birthday

On Canada Day July 1, McCrae House will host a Dominion Day celebration from noon to 5 p.m. The outdoor event will offer a glimpse at celebrations circa the 1890s and explore heritage arts, music and children's activities from this era. Rain location is the Guelph Civic Museum.

Garden tour

An "Art of the Garden" tour in Erin Mills runs June 21 and 22 from 10 a.m. to 5 p.m. in the Hills of Erin Township. Growers, gardeners, artists and hobby farmers will be on hand to answer questions. A variety of herbs, plants and various forms of garden art will be for sale. Brochures are available at the Bookshelf and Macdonald Stewart Art Centre. For more information, call 855-4438 before 5 p.m., 855-6772 after 5 p.m.

Pianist performs

The Arkell Schoolhouse Gallery presents pianist Andreas Thiel June 21 at 8 p.m. Tickets are \$12. To reserve tickets, call 763-7528.

AALP set for October

The Advanced Agricultural Leadership Program, a two-year program aimed at developing leadership in people who want to help shape the future of Ontario agriculture, will begin its seventh class in October. Applications are

due June 16. For more information, call 826-4204 or fax to 826-4208.

Arkell exhibit

"Hidden Figures," a show of recent paintings by Bryan Shook, runs at the Arkell Schoolhouse Gallery until June 30.

Wild rose festival

Everything's coming up roses for the Arboretum's third annual wild rose festival June 22 from 11 a.m. to 4 p.m. The festival features

tours of the rose garden, advice on growing roses, roses and related items for sale, children's attractions, garden-related crafts and an exhibition of floral watercolors. A Victorian tea with entertainment will also be offered; cost is \$3.50 for adults, \$2 for youth and free for children five and under.

Y club meets

The Guelph Y Service Club will hold its next meeting July 11 at 7 p.m. in the boardroom at the Guelph YMCA-YWCA. For

more information, call Martin Dand at 856-1250 or Marie Leone at the Y, 824-5150.

Summer worship

During the summer, Roman Catholic mass will be held Sundays at 10:10 a.m. in the lobby of the Landscape Architecture Building. The Open Door Church of non-denominational worship will run on the second Sunday of each month at 7 p.m. at Harcourt United Church, 87 Dean Ave. Services are scheduled for June 8, July 13 and Aug. 10. □

CLASSIFIEDS

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1991 Kawasaki ATV 220 cc, excellent condition, low mileage, front and rear racks, 2WD, five-speed including reverse, electric start, 843-5915.

1985 Chrysler LeBaron turbo, automatic, air conditioned, no rust, power everything. Sergey, 823-4120, Ext. 4873, or 824-1438 evenings.

1994 Hyline Park 40-foot trailer with tip-ups, located at campground in Scaforth, two bedrooms, full bath, central air and heating, AM/FM cassette throughout, eat-in kitchen with table and chairs, refrigerator, stove, gas barbecue, 40-foot deck, Ext. 6696 or 1-519-650-2343.

Used horse equipment and tack, Karen, 821-6057.

Woman's three-stone sapphire ring surrounded by diamonds, appraised at \$1,000, comes with written appraisal; woman's sheepskin full-length coat with fur collar, size 6, excellent condition; Little Tikes case, Ext. 3883 or 836-8939.

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Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre, fax to 824-7962 or e-mail lgraham@exec.admin.uoguelph.ca. For more information, call Ext. 6581.

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Get down to earth with art centre volunteers

The Volunteers of Macdonald Stewart Art Centre are holding their annual self-guided garden tour June 22 from noon to 5 p.m., rain or shine. Gardenscapes '97 puts the spotlight on the Donald Forster Sculpture Park and five local gardens, three of them owned by members of the U of G community.

Grounds supervisor John Reinhart has put his horticultural skills to work on the garden surrounding the century home he shares with his wife, Ellen, and their three children at 110 Dufferin St.

Over at 286 Kathleen St., Arbotum horticulturist Henry Kock has turned his front lawn into a

native plant meadow and his backyard into a beech-maple woodland garden, providing a home for a wide variety of wildlife. The garden of Gary Smith of the Department of Pathobiology — located at 69 Talbot St. — features a collection of 35 roses, a two-tiered pond and a gazebo.

Also featured on the tour are gardens belonging to Wendy Lewis and Lee Douglas Scott at 15 Glenholme Dr. and Cheryl Billingsley at 18 Clara St.

Tickets for Gardenscapes '97 are \$7 general, \$3 for children under 12 accompanied by an adult, and are available at the Macdonald Stewart Art Centre, the Framing and Art Centre,

GARDEN SCAPES



Royal City Nursery and Coach House Florists. They will also be available at each of the six gardens on the day of the tour. Funds raised go to purchase new art for the centre's permanent collection.

For more information, call 837-0010 during the day or 837-8082 in the evening. □

Two student peer helpers honored

Two U of G students have been honored for their contributions to the University's peer helper program.

The Lin Coburn Award, presented annually to the peer helper who most epitomizes the "well-rounded student," goes to Heather Gunter of Edmonton, who is graduating this week with a B.Sc.(Eng.) in biological engineering. Winner of the Peer Helper Program Graduate Scholarship is Danielle Perigoe of Scarborough, who is graduating with a BA in philosophy.

The Lin Coburn Award, named for the founder of U of G's peer helper program, goes to a peer who is actively involved in other campus activities, is achieving well scholastically and is a role model for other peer helpers and students.

The recipient must have contributed significantly to the program over and above expectations and maintained a healthy balance among all interests and involvements.

Gunter has won numerous awards, including the National Research Council Women in Science and Engineering Award, a Canada Scholarship and a Special Corporate Award from the Ministry of Industry.

In addition to her work as peer helper, she has volunteered with the Safe Walk program and the Red Cross and helped put together the engineering yearbook. She will be continuing her education at Harvard in a PhD program in medical engineering and medical physics.

The Peer Helper Program

Graduate Scholarship goes to an undergraduate student in final year who will be pursuing post-graduate work towards a career in the student services field or a helping profession. Perigoe has been accepted into Laurentian

University's interdisciplinary magistrister in arts program (values & interpretation) and hopes, with the aid of a law degree, to ultimately influence policy and procedure in the legal or political system. □



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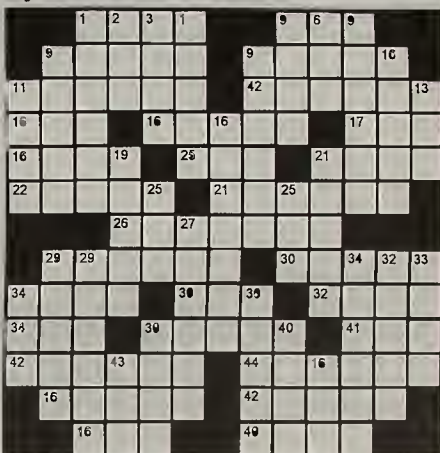


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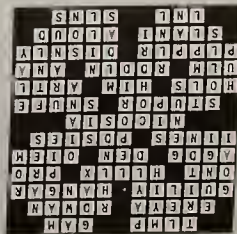


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1. Secretary ad interim
5. Machine part
8. Goddess of love
9. Mountain ash
11. Defendant's plea
12. Airplane shed
14. Neighbor of Que.
15. Watch spring
17. In favor of
18. Expectant
20. Private room
21. Per ____
22. Fork prongs
24. Nosegays
26. Capital of Cyprus
28. Dazed state
30. Candle-wick's charred end
34. Gardening tools
35. LBJ's beagle
37. Seed covering
38. Einstein's birthplace
39. French sculptor
41. Literary gossip
42. Salad item
44. Mickey Mouse creator
46. Diverge from a line
47. Audibly group
48. Female sheep
49. Attaches buttons
21. Moon goddess
23. Small drink
25. Family member
27. Band of warriors
28. Shoe bottoms
29. Child star of the 1930's
31. Seventh planet
32. Penalized in a monetary way
33. Peel off
34. Cadence count
36. Golden touch king
39. Mathematician
40. Cleopatra's river
43. Animal foot
45. Female pig



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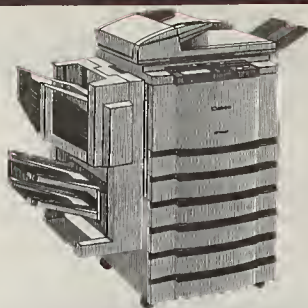
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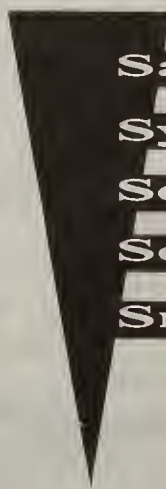


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AT GUELPH

41st
Year

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June 18, 1997

AT A GLANCE



You can go home! About a thousand alumni and friends are expected to visit the campus June 20 to 22 for Alumni Weekend. As a memento for visitors and members of the University community, this issue of *At Guelph* contains a four-page supplement on Alumni Weekend '97.

Annual barbecue July 10. U of G's 23rd annual community barbecue is set for July 10 and will feature games, displays and a variety of food and live entertainment. For anyone interested in helping out with the barbecue, committee meetings are held every Thursday at 3 p.m. in the Central Student Association boardroom. Everyone is welcome. For more information, call Ext. 6743 or send e-mail to mmacdonald@uoguelph.ca.

Summer schedule. *At Guelph* will publish twice more this semester — July 2 and 16. Deadline for copy for those issues is June 24 and July 9. The first issue for the fall semester will appear Sept. 10. Copy deadline is Sept. 3.

It's all
in the
family!



There were some strong family ties at Guelph's spring convocation ceremonies this month. Above: retired sociology and anthropology professor Sam Sidlofsky, left, and his wife, Shirley, along with their daughter Judith Stoffman, right, a 1969 graduate of U of G who is now a Guelph lawyer and sessional in the Department of Consumer Studies, share the excitement of graduation day with Stoffman's daughter, Allison, who received her BA in social sciences June 3. Also in the photo is Allison's brother, Malcolm. Below: convocation was a triumphant triumvirate for the Collins family of Guelph. Dorothy Collins, centre, a retired staff member from the office of the associate vice-president (academic), received her BA in classical studies. Her son, Tony, was awarded his B.Sc. in biochemistry. Her daughter, Sam, earned her BA in sociology and anthropology. For more convocation coverage, see page 9.

Photos - Martin Schwalbe

President welcomes visitors to Alumni Weekend

At each convocation ceremony I address, I point out to members of the graduating class that, in joining the ranks of Guelph's 75,000

alumni, they have a responsibility not only to share their knowledge and understanding with others, but also to become ambassadors for higher education.

I need hardly stress the point because over the years, Guelph graduates have distinguished themselves in countless ways — whatever their chosen careers — across Canada and around the world.

A university's reputation is built on the quality of its faculty, staff and alumni. I am proud of their many accomplishments and grateful for their valuable contri-

butions to the University of Guelph.

The University owes much to its alumni. They have supported the institution by mentoring students, volunteering their time and expertise and by sustaining or originating university initiatives. GUARD (Guelph University Alumni Research Development) is one example; the overwhelming success of the ACCESS fundraising program is another. Thank you all for your generous support.

I know many of you are marking significant milestones this year — perhaps your 25th anniversary,

your 50th or even your 65th. Also celebrating a milestone this year is the Ontario Veterinary College, which moved to the Guelph campus in 1922 and has played a leading role in veterinary science and teaching for the past 75 years.

Welcome back to your campus. I look forward to meeting many of you throughout the weekend.

President Mordechai Rozanski



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LETTERS

Campus looked great!

I wish to commend the Grounds Department for providing visitors with a beautiful campus during convocation week. In this era of shrinking budgets and staff, I was pleased to see that the grounds were so well maintained.

This was especially important to Independent Study/OAC ACCESS graduates, who were, for the most part, visiting our school

for the first time. Our learners came from many parts of Canada and the United States and were truly impressed by the beauty of this campus. Thanks to John Reinhart and his staff for making us all proud.

Stephen Fleischauer
Independent Study/
OAC ACCESS

GRAD NEWS

The final examination of MA candidate **Jerome Teelucksingh**, History, is June 23 at 10:30 a.m. in Room 132 of the MacKinnon Building. The major paper is "Were There Significant Achievements for Black America During the Civil Rights Era of the 1950s and 1960s?" The adviser is Prof. Clarence Munford.

The final examination of **Terry Hamilton**, a master's candidate in the division of applied human nutrition in the Department of Family Studies, is June 24 at 1 p.m. in the Counselling and Family Therapy Centre. The thesis is "Diet and Anthropometric Status of Four- to Six-Year-Old Children Living in Low-Income Communities in Ontario." The adviser is Prof. Susan Evers.

The final examination of PhD candidate **Andrew Nicholls Fittal**, Department of History, is June 24 at 1:30 p.m. in Room 904 of the MacKinnon Building. The thesis is "The Sovereign of All These Isles: British Kingcraft and British Civil Policies Under the Early Stuarts." His U of G adviser is Prof. Donna Andrew.

The final examination of PhD candidate **Caroline Hewson**, Animal and Poultry Science, is June 25 at 1:15 p.m. in Room 1118 of the Bovey Building. The thesis is "The Treatment of Canine Compulsive Disorder with Oral Clomipramine." The adviser is Prof. Ron Ball.

The final examination of **Michael Swidinsky**, a PhD candidate in the Department of Agricultural Economics and Business, is June 26 at 1 p.m. in Room 313 of the MacKinnon Building. The thesis is "The Off-Farm Labor Supply and Farm/Off-Farm Labor Reallocation of Farm Operators: A Conceptual Framework and Empirical Study." The adviser is Prof. Wayne Howard.

The final examination of M.Sc. candidate **Shirley Lin**, Food Science, is June 27 at 10:30 a.m. in Room 1702 of the OVC Learning Centre. The thesis is "Identification of the Sources of *Bacillus cereus* in Pasteurized Milk." The adviser is Prof. Mansel Griffiths.

Interested members of the University community are invited to attend. □

Committee studies potential of model to predict undergrad course enrolment

The Enrolment Management Committee has struck a subcommittee to study the feasibility of developing a central model to predict enrolment in individual undergraduate courses at U of G.

Over the next year, the Course Enrolment Projection Committee will determine whether the benefits of putting such a model in place are worth the effort of building and maintaining it, say Cathy Beattie and Murray Stinson of Institutional Analysis and Planning, who are co-ordinating the committee.

If the University could develop a reliable model at a reasonable cost in terms of time and effort, the payoffs could be substantial in the areas of enrolment management and resource allocation, they say.

A reliable central model could provide insight into the impact of many enrolment-related issues. For example, what if planned enrolment intakes are changed in particular programs? Or what if course offerings or curricula are altered in a department or program? And what if students in a particular program begin shifting from one area of emphasis to another? Answers to such questions would be useful to a variety of people on campus, ranging from senior executives to department chairs.

Similarly, the model could be a valuable tool when evaluating the need for academic resources such as sessionals, graduate teaching assistants and laboratory instructors, says Stinson. "It could help the University deal with the resource-allocation implications surrounding enrolment bulges and bubbles that occasionally

pass through particular programs or year levels," he says.

In fact, it was last fall's bulge in first-year B.Sc. enrolment and some enrolment shifts within the BA program that were major factors in the decision to launch the feasibility study this spring, he says. "There has been a need for this kind of model for quite some time, but the underlying enrolment issues are too complex for one person or one office to tackle alone. We hope the experience and expertise of the committee members will permit a co-ordinated approach."

Joining Stinson and Beattie on the committee are academic counsellors Johanne Doucet of FACS and Prof. Fred Ramprashad of CBS, Nancy Robinson of the office of the associate vice-president (academic) and Sharon Anthony, Ann Hollings and Elaine Kirby of Registrarial Services. Brian Pettigrew of the provost's office has also been significantly involved.

The committee is beginning its work by investigating the broad general issues surrounding course enrolment prediction. It's a complex area because enrolment hinges on so many different factors, ranging from whether the course is a prerequisite to whether it has an early morning time slot, says Beattie.

Some programs are easier to predict than others. A structured program such as veterinary medicine is straightforward, but less-structured programs such as the BA and B.Sc. are much more challenging, she says. "Paradoxically, the more difficult it is to predict course selection in a program, the more important it is that

you find a way to do it."

Over the coming months, the committee hopes to get input from academic departments across campus. "A lot of the expertise and knowledge about course selection are not in the University Centre but out in the field — with program counsellors, for example," says Stinson. "We want to tap into that."

Although a wide range of enrolment prediction models could be developed, the committee has been asked to focus first on core 100- and 200-level courses, where the need is currently most critical, says Beattie.

"We'll be working within the context of current academic policies, recognizing all the flexibility they offer to students," she says. "Given those policies, the tasks are to see what student trends we can get a firm understanding of, determine which factors are critical for modelling purposes and so on. Some of the data we need may not exist. We may have to make estimates. We need to look at how many new things would have to be done to create a model and how reliable its output might be."

Reliability will be a key factor for the committee in determining feasibility, says Stinson. "If the error rates on the course projections are so great that they can't be used with confidence, a model won't be useful. Reliability is a real challenge when you're working at the micro-level of an individual course."

At this early stage, feasibility is an open question, he says. "But whether or not the study ultimately leads to the creation of a model, committee members believe a lot of understanding and knowledge will be gained just by looking at the question." □

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Obituary

Retired French studies professor Alan Wilshire died May 9 in Manotick. He taught in the College of Arts from 1967 until his retirement in 1983.

After serving in the Second World War, he obtained his PhD from University College in England and taught in Uganda, England, Scotland, Zimbabwe and Newfoundland before joining Guelph's Department of Languages and Literatures.

He is survived by his wife, Allison; three sons, Anthony, Donald and Martin; and five grandchildren. □

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Dig In! The Village by the Arboretum marked the beginning of construction on its new village centre with an official sod-turning ceremony June 10. From left are president Mordechai Rozanski, developer Onn Reid of Reid's Heritage Homes Ltd., Guelph Mayor Joe Young, MP Brende Elliott and Paul Webb, president of the Village by the Arboretum Residents' Association. Construction of the 36,000-square-foot building is expected to be completed in late 1997 or early '98. Photo - Martin Schwalbe

Senate wraps up business for another academic year

At its last meeting of the academic year June 10, Senate approved the establishment of three new curriculum committees, a provincial diploma program committee, and additional representation on Senate and Senate committees for the three colleges that have joined U of G through the enhanced partnership with the Ontario Ministry of Agriculture, Food and Rural Affairs.

Senate secretary Brenda Whiteside said the revisions will ensure that each college has an opportunity for diploma student representation on Senate. In addition, the directors of the agri-food education program and continuing education will now be represented as ex-officio members of various Senate committees. Each of the three colleges — Kemptville, Ridgetown and Alfred — will establish a curriculum committee and nominate one faculty/staff member and one second-year student to form a provincial program committee. The students on this committee will be elected by their peers.

Tribute to retiring senator

President Mordechai Rozanski paid tribute to retiring senator Prof. Bill Hughes, Philosophy, for his contributions to Senate.

Referring to him as "Mr. Senate," the president commended Hughes for his University-wide perspective and for bringing a historical perspective to Senate discussions during the 17 years he has served. Hughes' rational and calm outlook has contributed greatly to Senate deliberations, said Rozanski, who also praised the senator for his integrity and service as chair of the Senate Executive Committee.

ACCESS awards

Several senators expressed concern about the provincially mandated terms for eligibility for ACCESS awards. In particular, the requirement for Ontario residency was criticized as discriminatory.

To be eligible for these awards, a student must be a Canadian citizen or permanent resident, be an Ontario resident for at least 12 consecutive months prior to study, or have a spouse or parent/legal guardian/official sponsor who has lived in Ontario for the same period, and demonstrate financial need through a government-approved needs-assessment procedure.

Rozanski said Ontario's university presidents had also been concerned about the restrictive nature of the criteria when first announced and that the Council of Ontario Universities had tried diligently to revise the terms to include out-of-province and international students.

"Unfortunately, these efforts were unsuccessful," he said. The needs-assessment procedure for ACCESS awards will follow current Ontario Student Assistance Plan guidelines.

Convocation change

U of G students who miss their convocation ceremony due to unforeseen or unavoidable circumstances will be able to attend the following convocation ceremony, Senate has decided. The recommendation for a formal policy on this issue was made by the Executive Committee.

More authority for BUGS

Senate granted the Board of Undergraduate Studies increased authority to approve undergraduate curriculum changes. Course additions and deletions will now be approved at the BUGS level rather than Senate. Exceptions include cases where there are unresolved issues brought forward by an individual, a program committee or the board itself, or where the decision sets a precedent.

Administrative offices on the move in UC

Several administrative units, including some on the fourth floor of the University Centre, will be moving this summer to accommodate restructuring decisions made after the massive cut in provincial funding last year.

Prof. Ken Grant, director of institutional planning, says this restructuring will save the University a significant amount of money and increase efficiency by avoiding duplication and consolidating resources.

Grant says the process began more than a year ago with the review of Graduate Program Services and the Office of Registrarial Services (ORS). The recommendation to downsize and merge these two areas eliminated the duplication of services, enhanced efficiency and reduced the ORS operating budget by more than \$300,000. Renovations on the third floor of the University Centre to accommodate the restructured unit were completed last summer.

Centralized space

The consolidation last year of academic, financial and library systems staff from Computing and Communications Services in the UC also achieved considerable savings, says Grant. Previously located in the library and on the third and fifth floors of the UC, University Systems staff now occupy centralized space on the fourth floor of the centre.

To accommodate this move, Communications and Public Affairs, which was also reviewed and downsized in 1996, relocated on the fourth floor. Minor renovations are planned this summer to improve the accessibility and efficiency of the space now occupied by this unit, including the accommodation of the new director, whose office has displaced the dean of graduate studies.

On the fifth floor, the final step in downsizing and consolidating Financial Services is necessitating some reorganization of space. All Purchasing staff are moving from Day Hall to the UC to be closer to Financial Services, particularly Accounts Payable.

"This will facilitate greater coordination of both relationships with vendors and on-campus purchasing and accounts payable services to departments," says John Miles, assistant vice-president (finance).

Also on the fifth floor, renovations to the space occupied by Human Resources will accommodate the additional staff funded by the Ontario Ministry of Agriculture, Food and Rural Affairs, required to meet the needs of the 400 additional employees that joined the University as a result of the enhanced partnership with the ministry.

The next move is designed to provide suitable space for the international student adviser and the Centre for International Programs (CIP), which will relocate from the fourth floor of the UC to the space vacated in Day Hall by Purchasing.

Internationalization is one of U of G's key strategic directions, and in keeping with Senate's resolve to increase international student enrolment, the University

is actively recruiting undergraduate and graduate students from abroad, says CIP director Prof. Jim Shute. Guelph is also building relationships with postsecondary institutions around the world and plans to increase the number of international exchange programs available to current undergraduate and graduate students.

"There is a real need for increased space for CIP to improve the quality and range of its services," says Shute. "The move to Day Hall will not only provide the additional space, but will also make the centre more accessible and welcoming to international students." Day Hall is also the location of the Office of First-Year Studies.

The domino effect of the moves continues with Institutional Analysis and Planning relocating to the offices vacated by CIP. Minor changes to this work space will ensure the security of planning documents and improve working conditions for the analysis and planning group. All this, in turn, requires renovations to the senior administration offices — to create a new office there for the dean of graduate studies, to provide more storage and meeting space and to relocate the entry to make the senior administration offices more open and accessible to the repositioned units on the fourth floor, while also ensuring personal safety for employees working after hours.

"Overall, there will be substantial annual savings resulting from the consolidation of services and units in the University Centre," says Nancy Sullivan, vice-president (finance and administration). "This represents a significant streamlining of services in a university that already spends less on administration than most other universities in the province."

The one-time costs of the renovations will be allocated to the current non-personnel operating budgets of most of the units involved and will require adjustments in these units' expenditures for other currently funded activities, says Sullivan. No new funds will be allocated.

Roadway reconstruction

Meanwhile, outside the University Centre, work funded from the parking budget to reconstruct the roadway in front of the building will begin this summer. Larry Hoy, head of planning in Physical Resources, says a start date for the work has not yet been set, but will probably fall in late July or early August. The project is expected to take three weeks, during which time bus service and visitor parking will be temporarily relocated.

The newly planted area beside the UC parking lot is part of the conservatory project, an effort to preserve campus heritage. The project is being funded by alumni and in-kind contributions from industry. □

Environmental sciences review lauded

Recommendations from the review committee of the Faculty of Environmental Sciences to strengthen its profile were enthusiastically received by Senate.

Prof. Michael Moss, associate dean of the faculty, was credited for his contributions towards developing a sought-after undergraduate program in environmental sciences and for attracting research projects. When it was established in 1991, the undergraduate program was unique in Ontario. Although similar programs have since been established at other institutions, U of G's had the largest increase in applications in the province this year, Prof. Alastair Summerlee, acting associate vice-president (academic), told Senate. Applications were up more than 60 per cent.

The key recommendations in the report are designed to ensure the continued growth of environmental science programs and address problems related to communications, said Prof. John Barta, Pathobiology, acting chair of the Senate Committee on University Planning.

Dairy science conference puts spotlight on Guelph expertise

About 1,500 members of the American Dairy Science Association are coming to campus June 22 to 25 to discuss all aspects of the production and processing of milk and dairy products. As it turns out, they're coming to the right place. U of G has one of the leading dairy research programs in North America, with more than 30 faculty covering the gamut from building a better cow to putting more flavor in your ice cream.

The Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) is the major supporter of this research, but other sponsorship comes from the Natural Sciences and Engineering Research Council and members of the dairy industry, including the Dairy Farmers of Ontario, Dairy Farmers of Canada, Cattle Breeding Research Council, Ontario Dairy Council, Holstein Association of Canada, Ontario Association of Bovine Practitioners and SEMEX Alliance.

Dairy research at Guelph falls into three main areas — genetics, health management and milk processing and analysis. Here, *At Guelph* presents some of the highlights of work under way at the University. For a more complete overview of Guelph's dairy research, see the current issue of *Research* magazine, the source of the following information.

Genetics

U of G geneticists and reproductive biologists have played an integral role in improving dairy genetics in Ontario. Together, they're applying knowledge in a way that's practical and economical. Their success is borne out by Canada's respected position in the global dairy genetics market.

At the Centre for the Genetic Improvement of Livestock (CGIL), researchers are involved in many facets of dairy cattle improvement. Work is under way in the areas of milk recording, conformation and production evaluations of artificial insemination (AI) sires and the conversion of international sire proofs to a common base.

For close to 50 years, animal geneticists in the Department of Animal and Poultry Science (home to CGIL) have calculated genetic evaluations for the conformation of dairy cattle as a service to the Ontario government and the Holstein Association of Canada. This led to a formal working arrangement with the Canadian Dairy Network, a privatized version of the formerly government-run domestic genetic evaluation program. This partnership has given CGIL researchers the opportunity to focus their research and development efforts on all the economically important traits of the dairy cow, says CGIL director Prof. Jim Wilton. "One of CGIL's objectives is to try to create efficient animals with the fewest possible health problems," he says.

The work of the centre's researchers benefits all Canadian dairy producers, says Wilton. It gives producers better information on their animals and allows them to make more informed genetic selection decisions, thereby improving their animals and increasing their sustainability. This results in increased profits for Canadian dairy producers and expanded worldwide exports of ge-



Photo - Trina Koster

netic material, he says.

The Animal Biotechnology Embryo Laboratory in the Department of Biomedical Sciences is dedicated to making embryo biotechnology procedures less complicated and more available to Canadian producers. Its researchers are all working towards the same goal — increasing the intensity and accuracy of genetic selection while decreasing the generation interval of dairy cattle. They're doing this by perfecting a variety of techniques for use in dairy herds, working under the direction of Prof. Stanley Leibo.

These techniques range from AI, the backbone of dairy cattle improvement programs since the 1950s, to others developed since the 1970s, including multiple ovulation and embryo transfer, in vitro embryo production and manipulation.

Other dairy research with a genetic bent at Guelph includes a study of the genetic connection to foot and leg disorders, computerized statistical models to improve genetic evaluation methods for production traits and work on eliminating abiochemical genetic deficiency in Holstein cattle.

Health management

Once the geneticists have done their work and produced a better cow, it's up to the specialists in management research to keep the cow healthy and help it produce milk as efficiently as possible.

On the milk front, U of G research includes a study of the role of water in milk production and an attempt to decrease the proportion of fat in milk by changing cows' feed.

In the health arena, Guelph researchers are evaluating a home test to help producers and veterinarians treat mastitis in dairy cows and determining if phosphorus supplements help cows recover from low calcium levels after calving.

On the theory that a happy cow is a healthy cow, researchers at Kemptville Agricultural College conducted a study of what cows like to have underfoot in their stalls. Dennis McKnight, Jonathan Morgan and Paul Sharpe were responding to producers' demand for an alternative to an earthen stall base, which is comfortable and safe but an end-

less chore to maintain. Producers were looking for something inexpensive and easy to maintain, but still comfortable and safe for their cows.

The researchers compared six different bases for use in free stalls and found that dairy cows prefer commercially available livestock mattresses to any other base. When cows had access to each stall base, they chose the stalls with mattresses most often. And they tended to lie down — a general indicator of comfort.

"Based on this research, we suggest that dairy farmers consider installation of cow mattresses in free-stall dairy barns," says McKnight. "Maintenance requirements are low, and if the decision were up to the cows, they would choose mattresses."

To help producers with their management decisions, Profs. Kerry Lissimore and David Kelson, Population Medicine, are working with dairy industry partners to develop a comprehensive information system on dairy farm health and production across Canada. They have several projects on the go that they call collectively "A Decision Support System for the Ontario Dairy Industry."

As part of this overall scheme, they are developing guidelines and national standards for dairy cattle disease recording and presentation. These guidelines will help researchers investigate the genetic component of disease, compare disease occurrence nationally and regionally, and modify management practices to promote animal health.

"One of our goals is to combine biological information with financial data," says Lissimore. "Ultimately, the goal of dairy producers is to preserve the health of their herds and increase their enterprise profitability. Understanding the interrelationship between the biology of the dairy herd and the economics of the farm business allows us to help dairy producers reach that goal."

Sometimes the after-effects of milk production are overlooked, but not at this university. At Alfred College, for example, engineering researchers Ian Malcolm and William Kollaard have found a way to clean up milkhouse waste. Milkhouse washwa-

ter has posed a problem in the dairy industry for years. It is laden with phosphorus, which can contaminate nearby surface waters, and the fat from milk residues clogs up tile fields.

But things are looking up with a small chemical reactor called a "floculator," developed by Malcolm and Kollaard after four years of research. It's the first chemical treatment system on the market and works by combining washwater and lime in a tank. It can remove up to 99 per cent of the harmful phosphorus, as well as most of the milk residues left behind in washwater, says Kollaard. In addition, the remaining water can potentially be recycled.

Milk processing/analysis

After milk has been produced, it's time for another set of researchers to step in. They get involved in everything from testing the quality of milk to finding ways to use milk outside the food industry.

U of G's Laboratory Services division, which recently became part of the University through its enhanced partnership with OMAFRA, has an analytical, regulatory, research co-ordination and animal-health mandate. Its expansive milk-testing program is its largest regulatory focus.

"Laboratory Services is unique in that it combines innovative research with standard province-wide milk-testing functions," says the division's research manager, John Lynch.

The lab tests milk samples from more than 7,000 dairy producers across the province. Fifteen samples are collected randomly from every farm each month. One goes for regulatory testing, four are for compositional testing and 10 are available for special investigations as information samples or for research purposes. The entire testing program sees two million samples pass through Laboratory Services' facilities every year.

Other U of G researchers are working to enhance the nutritional value of dairy products. Prof. Brian McBride and graduate student Tom Wright, Animal and Poultry Science, have discovered how to enrich milk with docosahexaenoic acid (DHA), an essen-

tial nutrient missing in many people's diets. They've developed a special feed supplement for dairy herds and teamed up with Prof. Bruce Holub, Human Biology and Nutritional Sciences, to determine its effects on the composition of milk fat.

The milk these herds produce after being fed the supplement will be enriched with DHA, an omega-3 polyunsaturated fatty acid that is needed in the eye and brain for optimal visual performance and mental functioning. Recent studies also show that as DHA consumption increases, the risks of cardiovascular disease go down. Food sources of DHA are limited, and cow's milk normally has zero to trace amounts.

In the Department of Food Science, Prof. Mansel Griffiths is leading a team that is investigating more efficient ways to deliver beneficial bacteria to the gut of humans and animals.

It's been suggested that when certain bacteria such as *Bifidobacterium* colonize the gut, they protect against infection by foodborne pathogens and produce other positive health effects. The trick is to get them to sites where they can grow without being harmed by adverse conditions in the food or the stomach.

The approach used by Griffiths' team is modelled on a non-dairy beverage developed in the United States. The drink consists of a fluid component containing gel beads (about the size of a pinhead) suspended within, to impart different flavors to the drink. The bead suspension technique could be applied to dairy products for probiotics — bacterial cultures with beneficial health properties. This involves using beads that protect the bacteria from the harsh acidic environment of human stomachs, so the nutrients can be delivered intact.

"We intend to use the beads to immobilize bacteria and tailor the system to a variety of dairy products, such as fermented beverages and cheeses," says Griffiths.

Other U of G dairy researchers have set their sights on finding ways to expand milk beyond its original uses as food ingredients or products, translating it into new and profitable opportunities for the dairy industry. This includes efforts to use milk components in a growing variety of creamy foods and drinks and to use milk and dairy products as ingredients for non-food industries such as pharmaceuticals, cosmetics and packaging. Other research into value-added products includes studies aimed at improving the structure of ice cream and increasing the spreadability of butter.

Whatever products are created by the dairy industry, U of G will be working alongside to ensure their marketing success. The University is getting a boost in this direction from the Dairy Farmers of Ontario, which is spearheading an \$800,000 chair program in dairy policy research at Guelph. As a leading policy analyst, the chair will have the crucial responsibility of providing leadership in research and analysis in dairy policy as the dairy industry addresses the future. A search is on now for a candidate. □

Welcome to Alumni Weekend '97



Former sheep barn marks 10th anniversary as Alumni House

As hundreds of visitors descend on U of G this weekend, Alumni House will once again be at its post as a central gathering place for alumni — a job it's been holding down for the past 10 years. It was June 1987 that the former sheep barn officially took on new duties as the meeting place for Guelph's alumni and home of U of G's alumni and development staff.

It was a good career move for the building. Originally the carriage house for the President's House (circa 1882), the building moved to Arboretum Road in the late 1920s and housed the University's sheep flock until the 1960s. The building then sat empty until the early 1980s, when the OAC Alumni Association suggested it be renovated to provide a meeting place for

alumni. The U of G Alumni Association made the project a priority, allocating support from the Alma Mater Fund. Money was also raised through contributions from the alumni associations, special activities and class projects. The University, too, lent a financial hand. During the building's re-birth, it was recognized by the City of Guelph as a site of historical and architectural interest.

Over the past decade, the UGAA — along with individual classes and alumni — has continued to play a big role in maintaining and adding to Alumni House, says Kathryn Elton, assistant director for alumni affairs. Their gifts have included furnishings, landscaping, a sitting wall, a sprinkler system,

artwork, trees and a patio. Most recently, support from alumni and the government allowed reconstruction of Alumni House's front entranceway to provide wheelchair accessibility. All gifts are recognized on a donor board that hangs in the front lobby of the house.

Paulette Samson, director for alumni affairs and development, says Alumni House has made a huge difference to U of G's alumni over the past 10 years. "It has given them a specific home on campus, a meeting place for alumni that is easily accessible and that they know has their identification on it," she says. The house also enabled alumni affairs and development staff to amalgamate from three separate locations

on campus, a move that helped increase the cohesiveness of the unit, she says.

Alumni House has hosted many significant events over the decade, including a conference of Ontario alumni associations, a gathering of Ontario university presidents and the new-student barbecues that attract hundreds of students during fall orientation each year. This weekend, the house will be both host and guest of honor at a reception to mark its 10th anniversary. The festivities get under way June 21 at 4 p.m.

During the Alumni House reception, the 30th anniversary of the UGAA will also be recognized. A photographic portrait gallery featuring presidents of the association will be unveiled. □



Dance, dance, dance!

Rock, roll, waltz and sway to the big-band sounds of Bobby Soul's Magic Touch Orchestra at a free campus dance June 21. Rain or shine, the music plays from 9 p.m. Saturday under a tent on Johnston Green.

You may hear some of the tunes they were dancing to on campus in the 1950s (see *Conversat* photo above) and the 1970s (an alumni event at right).

Bring your dancing shoes and friends and join Guelph alumni for this Alumni Weekend event that promises a musical journey through the past 40 years. To register for door prizes, fax your name and telephone number to Alumni House, fax to 822-2670 or send e-mail alumni@uoguelph.ca. You must be at the dance to receive a prize. □



Alumni couple recognized for contributions to Third World

by Mary Dickieson

When Cameron "Cam" Clark and Eleanor Smye met on the Guelph campus in 1950, they could never have predicted the future that lay ahead of them — marriage, raising four children and living in Asia and Africa for almost 30 years. There, they worked with some of the world's poorest farmers and earned the respect of many for their leadership skills and genuine commitment to helping people help themselves.

The contributions made by the Clarks to Third World development have also earned them recognition by the University of Guelph Alumni Association as 1997 Alumni of Honor.

Cam Clark earned a BSA from OAC in 1953; Eleanor Clark received a B.H.Sc. from Macdonald Institute in 1954. They were married a year later, and Cam completed a master's degree at Cornell University that led to a job in agricultural extension work with the Food and Agriculture Organization (FAO) of the United Nations. His first overseas assignment to Korea in 1956 was the start of a lifetime commitment to helping small-scale farmers in the developing world.

The Clarks spent time in Ghana and Rome before settling in Thailand in 1965. They stayed there almost 20 years as Cam assumed the positions of FAO regional officer for agricultural extension and then rural development for countries in Asia and the Pacific.



Cam and Eleanor Clark's dedication to Third World development has earned them the 1997 Alumni of Honor award.

FAO colleague John Rouse says Cam's genuine concern about the plight of the small farmer in Asian countries is near legendary. Cam

was the guiding force that helped launch FAO's innovative Small Farmers Development Program in 1975, and he oversaw the first

successful testing of the small trust group approach in Nepal, Bangladesh and the Philippines. The main elements of this approach were later incorporated into other FAO programs around the world.

Because of his leadership, Asian governments have included special programs for their small farmers as national policy. Not only did Cam help local governments develop effective programs, but he also assisted them to raise funds at the international level to support them.

While Cam was working with Asian farmers, Eleanor took on volunteer positions with the International Church of Bangkok, teaching western cooking to the Thai wives of U.S. soldiers, providing aid to foreigners detained in Thai jails for minor offences and helping local craftspeople become self-sufficient.

Her leadership role with the Hilltribes Handicrafts Committee (HHC) helped launch monthly sales to market handicrafts for local people who might not otherwise have a place to sell their goods. Each sale required about 150 volunteers to serve the normal crowd of about 1,000 buyers. In the 18 years Eleanor was with HHC, the organization returned about \$1.5 million to craft producers. ThaiCraft is now a registered Thai foundation with paid staff, but the original vision of helping hill country craftspeople remains strong, a tribute to Eleanor's work.

After retiring to Canada in early 1985, the Clarks continued to share their experience and knowledge in the field of rural extension and group organization. The FAO, World Bank and other development organizations have called on Cam to help with projects in Pakistan, Sri Lanka and Zambia. Other countries he has helped since retiring include Indonesia, Philippines, Nepal, India, Bangladesh, Pakistan, Sri Lanka and Zambia. The Canadian YMCA sent Eleanor to northern Thailand to advise the Chiangmai Y on international marketing of their handicrafts.

Cam sits on the relief and development working group of the Canadian Baptist Ministries, helping to develop policy and allocate funds to Third World projects. He is also involved with programs dedicated to integrating ex-convicts into society and adapting the small trust group approach to Canadian conditions.

The Kingston couple were nominated for the alumni award by friends and classmates in OAC '53. That class also has a long-standing commitment to international service through its sponsorship of the J. Ross Cavers Scholarships for international involvement in agriculture. The Clarks will receive their award June 21 during Alumni Week-end. □

Tireless volunteer builds relationships

by Mary Dickieson

It takes a full page just to list the U of G committees Tom Sawyer has served on over the past 25 years and the executive positions he has held in alumni organizations, but listing these contributions would not convey the spirit or enthusiasm that has earned him recognition as the University of Guelph Alumni Association Volunteer of the Year.

Beyond the sheer volume of his contributions are the relationships he has helped build in support of the University, its alumni, students and staff.

Sawyer earned a diploma in agriculture in 1959 and a BSA in 1964. His thoughts have never been far from the campus because he met his wife, Nancy, here and his career has been in the agri-food industry.

Now executive vice-president of the Fertilizer Institute of Ontario, Sawyer has worked hand-in-hand with OAC to promote sustainable farming practices. In the 1980s, he served on an advisory committee for the Soil and Water Conservation Centre and Information Bureau, encouraging farmers to experiment with conservation tillage and convincing the provincial government to fund the Land Stewardship Chair in the Department of Land Resource Science.

By serving terms as president of both his OAC classes, Sawyer has helped keep his classmates interested in the college and the University. He did the same thing on a wider scale while serving sev-



Tom Sawyer

eral years on the executive of the OAC Alumni Association and later turned that interest into financial support, finding ways for alumni to connect with the goals of the OAC Alumni Foundation and the U of G Alma Mater Fund.

Paulette Samson, director for alumni affairs and development, describes Sawyer as a tireless worker who is passionate about the University and his role as a volunteer.

"Tom is the kind of person who looks to the heart of a need, then rolls up his sleeves to get the job done," says Samson. "One of his strengths as a volunteer is his ability to bring people together to share common concerns and develop ideas that benefit both alumni and the University."

And the trait runs in the family, she says. Nancy Sawyer, who graduated with a B.H.Sc. from Macdonald Institute in 1962, has devoted many volunteer hours to the Mac-FACS Alumni Association

and the College of Family and Consumer Studies, most recently to the fund-raising effort that completed the 1995 FACS addition.

The Sawyers have contributed personally and as volunteers to a number of fund-raising initiatives on campus. For the past six years, Tom Sawyer has chaired a joint OAC Alumni Foundation/Association fund-raising committee, always looking to how these two organizations can move ahead with the best interests of the University and its students at heart.

A longtime supporter of scholarship programs, he saw the recent ACCESS Fund campaign as a way to benefit the diploma programs at Guelph, Kemptville, Ridgeway and Alfred and draw their graduates closer to the University alumni family. He proposed a challenge to diploma graduates that resulted in close to \$1 million in financial aid endowments. Donations designated to the four diploma programs will be doubled by the provincial grant to ACCESS and tripled by the matched portion of an estate gift from former OAC professor William Ewen.

Tom Sawyer was also a key player in the OAC initiative that led to the formation of GUARD Inc. and in the alumni review of the early 1990s that supported the college in its recent curriculum changes.

The UGAA Alumni Volunteer of the Year Award will be presented June 21 during Alumni Weekend. □



Deborah O'Connor, a former Guelph professor of applied human nutrition, received the U of G Alumni Association's 1997 Alumni Medal of Achievement at convocation June 6. A 1983 B.A.Sc. graduate of FACS, she has consulted widely for Health and Welfare Canada on issues of human nutrition and is now leading pediatric research at the Ross Products Division of Abbott Laboratories in Columbus, Ohio. She is also an adjunct professor at Ohio State University.



Class of '72 marks 25 years

Relive campus memories and catch up with classmates and friends at the 25th-anniversary reunion celebration
June 21.



OAC professors Ron Ball, left, Doug Goff, centre, and Tom Michaels go to the head of the class as winners of the OAC Alumni Foundation's distinguished faculty awards for 1997. Photo - Martin Schwalbe

OAC alumni honor three for research, teaching, extension

Three OAC faculty earned top marks from college alumni recently when they were named winners of the OAC Alumni Association's distinguished faculty awards for 1997.

For almost 25 years, the association has been recognizing and encouraging scholarly excellence in OAC by selecting three faculty members who excel in teaching, research and extension. Winner of this year's Distinguished Researcher Award is Prof. Ron Ball, Animal and Poultry Science. The Distinguished Teaching Award goes to Prof. Tom Michaels, Crop Science. Winner of the Distinguished Extension Award is Prof. Doug Goff, Food Science. The awards will be presented during Alumni Weekend.

Ball, a graduate of the University of Alberta and U of G, has been a faculty member at Guelph for 12 years. He has had a distinguished research career focusing on the relationship of protein turnover and amino acid metabolism to body development and meat quality in hogs. Because his work also involves nutrition and development in humans, he holds adjunct appointments with Guelph's Department of Human Biology and Nutritional Sciences and the Faculty of Medicine at the University of Toronto.

While at Guelph, Ball has authored and co-authored six commissioned review articles and book chapters, 70 refereed publications, 28 papers in conference proceedings and 115 abstracts for scientific conferences.

A strong believer in spreading the word about research results, he has published widely in the popular press, been interviewed more than 90 times by the media and has spoken widely to academic, industry and other audiences. He is also president of the Canadian Society of Animal Science.

Ball is returning to his native Alberta this September to take a position at the University of Alberta. Mary Lynn McPherson, president of the OAC Alumni As-

sociation, says alumni "regret that he is leaving the University and will be farther away from Ontario producers, who have valued his expertise. But we're thankful for the contribution he has made to both academia and industry since he's been at OAC."

Michaels, who is acting associate dean of OAC, is a graduate of the University of Wisconsin-Madison and joined U of G in 1982. He receives the Distinguished Teaching Award for the broad contributions he has made to teaching and learning through curriculum development at Guelph.

Michaels played a leading role in restructuring the B.Sc.(Agr.) degree program. Called Vision '95, this revised curriculum builds on U of G's learning objectives, emphasizes communication skills, problem solving, internationalism and experiential learning and integrates those with traditional agricultural knowledge in a learner-centred program.

As co-chair of the B.Sc.(Agr.) program committee, Michaels shepherded the curriculum through its conceptualization and design phases, through faculty and Senate reviews, and is now active in its delivery as a teacher.

He also played a leading role in restructuring the diploma in agriculture program at U of G, Ridgetown, Kemptville and Alfred, pioneered video- and computer-assisted learning and is renowned for his creative class projects.

Michaels received the University's 1996 John Bell Award for excellence in teaching and curriculum design and won a U of G Faculty Association Teaching Award in 1994.

Michaels's innovative approach to teaching is "inspiring," says MacPherson. "He has broken ground by incorporating a wide variety of teaching tools into the classroom while championing a learner-centred curriculum that gives students the opportunity to excel both technically and behaviorally in the marketplace."

Goff, winner of the Distinguished Extension Award, holds a B.Sc.(Agr.) from Guelph and a PhD from Cornell. Since joining U of G's faculty eight years ago, he has focused his research on the physical chemistry and technology of ice cream manufacturing. He has published refereed scientific papers and written more than 20 technical industry-oriented publications on the subject.

He has also given more than 50 scientific and technical presentations to research and industry organizations and has organized and led close to 30 workshops for the ice cream industry. Carrying on a 90-year tradition, he leads the Office of Open Learning's annual five-day short course for members of the industry.

Goff also helps individual dairy businesses with technical matters and in-house training programs. He was one of the originators of Guelph's distance education certificate in food science, was involved in designing three of the courses offered in that program and functions as faculty adviser. He has tirelessly championed the development of open learning at U of G.

"The links between the faculty of OAC and industry and rural groups has always been one of the strengths of the college," says MacPherson. "Doug Goff is a distinguished example of that tradition." □

Retired OVC faculty member honored for lifetime achievement

Great minds think alike.

At least collective veterinary minds think alike when it comes to recognizing a colleague for lifetime achievement in the profession. Both the OVC Alumni Association and the Ontario Veterinary Medical Association (OVMA) have chosen to honor William "Bill" Mitchell this year for his contributions to veterinary medicine. The OVMA Award of Merit was presented earlier this year; the OVC Distinguished Alumnus Award will be presented this weekend.

A veteran of the Second World War, Mitchell has had a long association with OVC since graduating in 1949. He spent a few years in public health, but developed an interest in epidemiology that eventually brought him back to campus for a 36-year career at OVC. There, he played a significant role in developing extension activities and continuing education opportunities.



Bill Mitchell

Alan Meek, who earned his DVM in 1971. "Bill had a big influence on my career," says Meek, who realized after a year in private practice that he wanted to move in a different direction. Mitchell suggested graduate work in epidemiology and became his supervisor.

Prof. Wayne Martin, chair of the Department of Population Medicine, who earned his DVM in 1967, says he also had a fateful talk with Mitchell that led to his own career in veterinary microbiology and immunology.

Outside the classroom, Mitchell was involved with several professional bodies, lectured at the University of Toronto School of Hygiene and the College of Pharmacy and was instrumental in starting the Canadian Association of Veterinary Epidemiology and Preventive Medicine.

Retired since 1986, he has organized many reunions of the Class of '49 and is leading a class project to raise funds for an OVC graduate student award. After the death of his wife, Gladys, in 1991, Mitchell organized a support group of widowed retired OVC faculty. He says the best thing about retirement is the time available now for his five grandchildren and his favorite recreation — fishing. □

Popular short courses

Mitchell's first job at OVC ranged from talking to farm groups about new trends and developments and administering government programs to supervising subsidized veterinary practices in remote parts of Ontario.

In the 1950s, he created popular short courses covering various aspects of veterinary medicine. They attracted people from other veterinary colleges and practitioners from all over North America.

He also established an audio-visual section at OVC to produce 16-mm films and photographs for lectures and publications. The films produced by this unit covered such topics as kidney and heart transplantation, pathology specimens, animal health and large- and small-animal medicine, says Mitchell. There were also news films "on anything we thought people should know about."

After OVC became part of the University of Guelph, he transferred to the Department of Veterinary Microbiology and Immunology (VMI) and began a new phase in his career as an educator and researcher.

He helped develop OVC's first graduate course in epidemiology and later designed a course for a graduate diploma, which evolved into the M.Sc. degree in epidemiology.

Among the many graduate students he advised was OVC dean

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AMF looks to the future

If you're worried about the future, watch the mail for a message from Alma Mater Fund volunteers that will put the future into perspective.

Within days, members of the campus community and alumni will receive a brochure outlining the 1997 AMF campaign to support multimedia computer facilities on campus. For the second year in a row, the AMF Advisory Council chaired by Larry Argue, who holds a BSA and MSA from Guelph, has chosen multimedia technology as its priority project.

"I see the future in the thousands of promising students who will be tomorrow's leaders and in the evolution of teaching and learning at the University of Guelph," says Argue.

AMF volunteers plan to match last year's commitment of \$120,000, which provided 70 new multimedia workstations in the library.

Computers have become an integral part of U of G's teaching curriculum, but with more than 12,000 undergraduate students at Guelph, the four computer labs now on campus can no longer meet the demand.

Computer-based learning has been designated as the AMF priority project for 1997, but the annual fund also supports a number of ongoing projects including the library, college advancement funds, athletics, faculty development, student initiatives and scholarships and bursaries.

The AMF tradition of providing financial aid to students is one of the reasons for U of G's success in the recent ACCESS fund-raising campaign, says Paulette Samson, director for alumni affairs and development.

"Alumni and staff who give annually to AMF were eager participants in ACCESS, taking advantage of the provincial government program to boost their regular donation," she says. "But ACCESS has not eliminated the need for annual giving. AMF commitments reach far beyond scholarship endowments, and those programs still need our support."

Since it was established in 1969, the AMF has raised almost \$9 million. Alumni Stadium, the Arboretum Centre, War Memorial Hall and the Office of First-Year Studies are some of the larger projects that the fund has supported, but it has also helped build an OVC seminar room and a lounge in the MacKinnon Building, restored parts of Johnston Hall and remodelled part of the Child Studies Lab School.

"In so many instances, AMF giving has made the difference between satisfactory and superior facilities and has provided students and faculty with opportunities that simply couldn't be funded from operating revenue or endowment funds," says Samson. "It is crucial that we continue to support those efforts." □

Campus fund raisers big givers!

As U of G fund raisers in Development and Public Affairs prepare for the 1997 Alma Mater Fund campaign, they are also celebrating their own achievement in giving.

D&PA staff recorded the highest participation rate of any U of

G department in the 1996 United Way appeal. They were recognized recently by the United Way of Guelph and Wellington with a platinum award for achieving more than 90-per-cent participation. The average donation was \$80. □



OAC dean Rob McLaughlin, standing, and crop science professor Tom Michaels offer a few tips to Ruth Graham, a visitor at the opening of the Forman Lawrence Multimedia Lab during last year's Alumni Weekend.

Photo - Mary Dickieson

Campus tour highlights leading food research, learning with computers



During Alumni Weekend, visitors to U of G can take part in two special tours of the campus and city highlighting leading food research and computer-enhanced learning. Both tours run June 21 from 9:30 to 11 a.m.

The "Indulge Yourself" tour will feature a visit to the Guelph Food Technology Centre (GFTC) to learn about the mysteries of quality ice cream and potato chip production.

Prof. Doug Goff, Food Science, who has taught an ice cream technology course for the past eight years, will lead a general discussion of research related to ice structure, fat and air bubbles and how structure can be manipulated to modify improvements to ice cream.

Since 1914, Guelph's Office of Open Learning has offered the ice cream technology course for personnel from the ice cream manufacturing, supply and retail sectors.

Retired food science professor Sandy Pearson, who taught the course from 1955 to 1984, will be honored June 21 at 2 p.m. with the dedication of the Pearson Room in the GFTC. The room has been refurbished by the class of OAC 1963, of which Pearson was honorary class president.

Prof. Rick Yada will discuss factors involved in potato chip production, such as color, oils and potato varieties. A taste test, comparing a home-brand chip with a gourmet chip, will be staged for participants. Yada will also provide an update on industry-sponsored research to predict potato chip quality.

Prof. Tanya MacLaurin, HAF, will conduct a brief presentation about sensory evaluation called "Fool Your Taste Buds with Your Nose."

The Department of Food Science is internationally recognized for the quality of its graduates and

its record of excellence in research. Endowed chairs in dairy microbiology, dairy chemistry, egg science and food packaging play key roles in directing industry-sponsored research programs.

The "Take a 'Byte' Out of Guelph" tour will feature a hands-on demonstration led by Prof. Deborah Stacey, Computing and Information Science, at the Forman Lawrence Multimedia Laboratory in the Crop Science Building. The estate of Forman Lawrence, a 1943 BSA graduate, enabled OAC to open the multimedia lab during Alumni Weekend '96. The college has used the lab for 12 courses over the past year.

Computers have become an integral part of the teaching curriculum at U of G. As teaching and learning methods evolve, more and more of the University's programs include computer software modules to support and strengthen lectures, labs and textbooks.

In addition to enhancing the learning environment, computers strengthen communication between students and teachers through electronic mail. Computers also help students conduct research by providing a global link to all the latest data and information on the Internet.

There are currently four multimedia computer labs on campus with about 35 workstations in each.

Other campus sites featured on the tour include the Bovey Building, Ontario Ministry of Agriculture, Food and Rural Affairs, aquatic sciences facility, twin-pad arena, Turfgrass Institute, Research Park and Macdonald Stewart Art Centre.

City sites of interest include Church of Our Lady, Guelph's new civic centre and the Village by the Arboretum. □



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Spring convocation '97 celebrates 1,931 new grads

Sunny skies reigned on Johnston Green June 3 to 6 as U of G awarded more than 1,900 degrees and diplomas during seven convocation ceremonies. The University also presented honorary degrees to humanitarian Elie Wiesel, Pulitzer Prize-winning biologist Edward Wilson, and John Kean, president and CEO of the Canadian Standards Association. Retired OVC dean Ole Nielsen was named an honorary fellow of the University.



Elie Wiesel

Elie Wiesel, a survivor of the Holocaust and currently Andrew Mellon Professor in Humanities at Boston University, told students graduating from the College of Social Science at afternoon convocation June 3 that everyone can make a difference, if not to the whole world, then to the life of one person.

He spoke out against racism and the many senseless acts of violence and political oppression still occurring in the world and urged the graduating students to "speak up and make a difference" and to fight racism in all forms.

He also told the graduates that education provides them with powers of discernment to make right decisions and to bring them to a closer understanding of other human beings.

"Education offers you a possibility of understanding what otherwise would be beyond the scope or the reach of your intelligence," he said. "Education is given to us not to be superior to other people. Education is given to us in order to understand the other person, to come closer to the other person, which means to seek friendship or love or compassion, understanding and surely solidarity."



Margaret Priest

Speaking to graduates of the College of Arts at morning convocation June 4, Prof. Margaret Priest, Fine Art, said Canada needs strong artists in the visual arts, the performing arts and the applied arts to fulfil the human need for expression. But artists

need support from all quarters — from governments, corporations and from Canadians — to grow strong. The current trend of the government to cut university funding and focus on job-oriented programs is ignoring the reality that creativity-driven industries such as music and publishing add to the country's prosperity, she said.

Priest suggested the graduates let the government know what a university education is all about. "Remind them that the real purpose of a university education — the reason you've been toiling away in order to get to this day, is not to learn an obviously and immediately marketable skill; it's to learn something much more important — to think."



Noble Villeneuve

At afternoon convocation June 4, Noble Villeneuve, Ontario minister of agriculture, food and rural affairs, told graduates of OAC's diploma program that a bright future awaits them in the agri-food industry because it is growing in every way that counts. "It's the second largest business in Ontario, providing some 640,000 jobs, generating \$25 billion in economic activity every year, exporting \$5.3 billion worth of agriculture and food products annually," he said.

"Your commitment to learning, to lifelong learning... your self-discipline, self-direction and self-sacrifice, your desire to enhance your knowledge and upgrade your skills, your determination to contribute to the green industries of horticulture, landscaping and agriculture — these are your strengths," said Villeneuve. "And I'm delighted that you have chosen to share those sterling qualities with Ontario's agriculture and food industries."



Edward Wilson

Edward Wilson, who holds the Pellegrino University Fellowship at Harvard University, urged CBS graduates at morning convocation June 5 to use science to the maximum. "Keep learning it as a

tool, as a way of thinking and as a manual for the making of wise decisions in the increasingly complicated but hopeful future of the approaching century," he said. "Ignore the ignorant mistakes of previous generations. Keep in mind you are a part of the Creation, the living world, in body and spirit, and you have a sacred personal duty to keep it intact and healthy."

He stressed the importance of guarding the world's environment. "Our health, our livelihood, our very perception of the fulfilment of life depends on how we protect and manage the environment. The big news is that we are doing a wretched job of protecting and managing the environment in spite of all the talk about it.... Our species, *Homo sapiens*, although only one out of more than 10 million species on Earth, appropriates an incredible 40 per cent of the energy fixed by green plants on the land as particulate matter."



Ole Nielsen and the chancellor

At afternoon convocation June 5 for graduates of OVC and CPES, Ole Nielsen also expressed concern about the effects of human actions on the loss of biodiversity and the environmental degradation occurring on the planet.

He suggested that today's young graduates will be called on to look at these complex issues inherited from past generations. "All of you can be, all of you must be, part of the effort to address and ultimately solve these problems," he said.

One solution or approach is a better appreciation for the ideas embodied in the broad concept of health and their application, said Nielsen. By applying health concepts to the environment, one can gain a broader understanding of social and economic circumstances, which are the chief determinants of human health and of all living things.

The environment was also a theme at morning convocation June 6 as John Kean addressed students graduating from FACS. He paid tribute to the thousands of people who support Canada's National Standards System. The development of all standards in Canada is based on a voluntary consensus process that has evolved in response to global needs, and the emerging new standard, the ISO 14,000, is far-reaching and profound in its implications, he said. Officially



John Kean, left, and chancellor Lincoln Alexander

called an "environmental management systems standard," it is an agreed-on standard for corporate behavior towards the environment.



Photos - Martin Schwalbe

"It might be just the single most powerful method the world has yet devised to protect the global environment — an environment that becomes more fragile each year as our ever-increasing world population seeks the benefits of modern life," he said.

"When considering a job offer now or in the future, inquire whether the company has a commitment to quality or to environmental management," Kean told the graduates. "You can — and I am sure you will — help set the standards for the future and make the world better for all of us."

Convocation wrapped up June 6

at 2:30 p.m. with a ceremony for graduates of OAC. Hank Vander Pol, a 1965 graduate of OAC, chair of the Parents' Program, a member of GUARD and a longtime supporter of the University, urged the graduands to remember the efforts of those who have supported them through their years at university. "It is very easy to forget temporarily all of those who have made this possible," he said. "I urge you not to forget them."



Hank Vander Pol

Likening graduation to the finish line of a road race, he noted that, as in any race, the equipment and support are as essential as the driver. Guelph graduates have had some of the best equipment and support available in terms of its faculty and staff and its physical resources, he said.

Vander Pol said it was "an absolute honor" to speak at the graduation of his daughter, Lynn, who received an honors BA with distinction in environmental sciences. □

Diploma grads go the distance

A new award recognizing the importance of effective communication in the horticulture industry marked the 35th annual convocation for Independent Study/OAC ACCESS.

A total of 104 distance learners graduated with the Ontario diploma in horticulture (ODH) and Ontario diploma in agriculture June 4. Many of them travelled to campus for the first time to accept their diplomas, coming from as far as British Columbia and Newfoundland. Graduates from the United States were also represented, with two attending from Illinois and New York.

Alison Ferguson of London was

the first recipient of the new communication award. An ODH graduate, she has her own landscape design business and is assistant manager at a new nursery.

Beverley Goodwin of Squamish, B.C., is this year's recipient of the Ontario Ministry of Agriculture, Food and Rural Affairs Award of Excellence. Goodwin is a member of the B.C. Parks and Recreation Education Committee and Urban Forest Committee.

Seven industry-sponsored awards were also presented at a graduation banquet sponsored by the ODH Graduates' Association. □

Community

NOTICES

Deadline extended

The deadline to apply for the Advanced Agricultural Leadership Program's next class, scheduled to begin this October, has been extended to June 30. The two-year executive development program is geared to Ontario residents with leadership potential and a commitment to agriculture and the rural community. For an application package or more information, call 826-4204 or send e-mail to aalp@uoguelph.ca.

Garage sales

The Guelph Food Bank is holding a series of fund-raising garage sales this summer — June 20 and 21, July 4 and 5, July 18 and 19, July 25 and 26, Aug. 8 and 9, Aug. 22 and 23, Aug. 29 and 30, Sept. 12 and 13 and Sept. 19 and 20. Sales run from 8 a.m. to 8 p.m. at 100 Crimea St. Proceeds go towards operation costs. If you have any items to donate, drop them off at the Food Bank or call 767-1380 to arrange pickup.

Summer serenade

St. John's-Kilmarnock School marks its 25th anniversary June 21 with its second annual Summer Serenade on Kilmarnock Pond. Hosted by CBC broadcaster Howard Dyck, this is a family event featuring the school's

choirs, the Elora Festival Singers, the Renaissance Singers and the vocal ensemble Tactus. The school's grounds open at 5 p.m. for picnics; the concert begins at 7 p.m. Concert tickets are \$25 for adults, \$10 for students and St. John's-Kilmarnock alumni, free for children under five. For ticket information, call the Elora Festival box office at 846-0331.

A rose is a rose

The Arboretum's third annual wild rose festival runs June 22 from 11 a.m. to 4 p.m. The event will feature tours of the rose garden, teacup reading, advice on growing roses, crafts, a Victorian tea and an exhibition of floral watercolors by Ursula Rodrigues of the Office of Open Learning.

On stage

Theatre on the Grand in Fergus presents *On Golden Pond* July 16 to Aug. 2. For ticket information, call 787-1981.

Focus on nutrition

The Department of Human Biology and Nutritional Sciences continues its graduate seminar series June 23 with Harvey Anderson of the University of Toronto discussing "Protein, Amino Acids and the Regulation of Food Intake — New Directions." On July 7, graduate

student Lisa Gallacher examines "The Effects of Niacin Deficiency and Ethylnitrosourea Treatment on NAD and Poly(ADP-Ribose) Metabolism in Rat Bone Marrow." The seminars begin at 10 a.m. in Room 141 of the Animal Science and Nutrition Building.

Don't miss the bus

The Guelph-Wellington-Dufferin branch of the Victorian Order of Nurses and Guelph Transit will stage the second annual VON fund-raising bus pull June 22 from noon to 3 p.m. on Quebec Street. Teams of 10 people, four of which should be female, are invited to sign up for the event. Registration is \$50. To obtain pledge forms or more information, call the VON at 822-5081.

Certificate courses

The Office of Open Learning is offering courses in its certificate programs this summer. "Salary Administration and Benefits," part of the certificate program in human resources management for school board administrators, runs July 7 to 10. "Customer Service and Community Relations," part of the certificate program in pupil transportation management, runs July 14 to 17. For more information, call 767-5000.

Religious studies

Marcus Borg, a professor of religious studies at Oregon State University, comes to Guelph in September for a series of talks on the theme "Meeting Jesus Again." He will speak Sept. 19 at 7:30 p.m. in War Memorial Hall and give three talks as part of a day-long session Sept. 20 at Harcourt United Church. The Saturday session, which runs from 8:30 a.m. to 4:30 p.m., will also feature a number of seminars. General admission is \$10 for Friday night, \$20 for Saturday or \$25 for both. For seniors, students and the unemployed, tickets are \$5, \$10 and \$12.50. For more information, call Rev. Lucy Reid, Ext. 2390.

Manitoba Flood ride

U of G grads Maggie and David Laidlaw, who ran the University's Cycling Club for 15 years, plan to bike from Guelph to Winnipeg with their two children next month to raise funds for schools damaged and school supplies lost in the Red River flood. They will set off July 1 and hope to arrive in Winnipeg by the end of the month. Anyone wishing to make a donation in support of the ride can forward it to Patricia Law in the Department of Music until July 25. Make cheques payable to the Manitoba Flood Bike Ride for Schools.

Host families needed

The Guelph chapter of the Language Workshop, which helps brings international students to Canada to learn English, is looking for host families for students from Spain and Quebec for the month of July. The students will attend classes at U of G throughout the month. Host families receive \$90 a week. If interested, call Margaret Burnett at 821-1247.

Welcome to summer

The Arkell Schoolhouse Gallery's Solstice Piano Festival concludes June 21 at 8 p.m. with Andreas Thiel performing works by Grieg and Chopin. Tickets are \$12. For reservations, call Geraldine Ysselstein at 763-7528.

In the garden

The volunteers of the Macdonald Stewart Art Centre will host their fifth annual self-guided tour of five Guelph gardens and the Donald Forster Sculpture park June 22 from noon to 5 p.m. Tickets for Gardenscapes '97 are \$7 for adults, \$3 for children, and are available at the art centre, Royal City Nursery, Coach House Florist and Gifts and the Framing and Art Centre. □

CLASSIFIEDS

FOR RENT

Three-bedroom cottage at Grand Bend, one block from main beach, television, barbecue, microwave, no pets, available weekly or monthly, 519-238-6972.

Furnished two-bedroom cottage on Trent Canal in Campbellford, fishing, boating, swimming, golf nearby, available weeks and weekends June to October, \$495 a week, 824-7551.

Three-bedroom house for July and August, Exhibition Park area, \$950 a month, 837-1732.

Furnished two-bedroom house, available Sept. 1 to April 30, 1998, non-smokers, \$900 a month inclusive, Ext. 3645 or 822-2460 evenings.

FOR RENT

Three-bedroom home in prestigious area of Fergus suitable for a family, 2,100 square feet, gourmet kitchen, beautiful deck and gardens, excellent schooling, 20-minute drive to Guelph, available Sept. 1 for one year, \$1,500 a month inclusive, 787-1176 evenings.

Two- or three-bedroom apartment on main floor of house, close to bus route, 10-minute drive to University, parking, storage, \$850 a month, Doug, 822-4469 after 6 p.m.

Large three-bedroom main-floor apartment, Victoria/Speedvale area, fridge and stove included, close to schools and bus route, \$900 a month inclusive, 822-7899 after 5 p.m.

Basement room for mature student, close to bus route, parking, non-smoker, no pets, \$275 a month, 822-3129.

FOR RENT

Room in spacious two-bedroom apartment, laundry, parking, close to mall and bus route, non-smokers, \$60 a week or \$250 a month inclusive, fall option available, 766-4301.

Furnished one-bedroom apartment for quiet, non-smoking female, 10-minute walk to campus, parking, available Aug. 1, \$400 a month inclusive, 821-3999.

Two-bedroom apartment, fully equipped kitchen, television/VCR, Jacuzzi ensuite off master bedroom, available nightly, weekly or monthly for visiting executive guests or friends of University staff, Carol, 823-1857 or 837-7537.

FOR SALE

Century house for sale, desirable downtown location, 1,300 square feet, fully renovated, surrounded by unique terraced gardens and hidden yard, 763-4425.

1988 Chevrolet Barett, V6, five-speed, 155,000 kilometres, good condition, 822-7899 after 5 p.m.

1986 Chevrolet Caprice Classic, original paint, no rust, excellent condition, well maintained, 184,000 kilometres, Iain, Ext. 4331, 745-3453 evenings, or send e-mail to imurray@uoguelph.ca.

1985 Cadillac Sierra, uncerified, Victorian dining-room suite, six chairs and hutch, Krys, Ext. 3044 or 821-1879.

FOR SALE

6,000 BTU vertical window air conditioner, 836-7412.

Woman's right-handed metal woods, numbers 3, 5 and 7 with graphite shafts and new grips, excellent condition, Ext. 2277 or 856-4046 evenings.

Refrigerator, 1.7 cubic feet, white, used for one year, Marg, Ext. 6983 or 824-3800.

Handmade English quilts, Ikea Olga chair, old-fashioned record player, 766-4301.

1994 Hylite Park 40-foot trailer with tip-outs, located at campground in Seaforth, two bedrooms, full bath, central air and heating, eat-in kitchen, refrigerator, stove, gas barbecue, deck, Ext. 6696 or 1-519-650-2343.

Woman's three-stone sapphire ring surrounded by diamonds, appraised at \$1,000, comes with written appraisal; woman's sheepskin full-length coat with fur collar, size 6, excellent condition; Little Tikes easel, Ext. 3883 or 836-8939.

WANTED

Used wheelbarrow, scythe, pitchfork, trowels, spades, etc., for OPIRG's Permaculture Garden, drop off at 1 Trent Lane, Shelley, Ext. 2129.

Apartment for professional non-smoking male, preferably on main floor, parking required, Doug, 822-4469 after 6 p.m.

WANTED

Caregiver for weekdays in August for six-year-old boy in our home, requires two or three overnight stays and some meal preparation, must be excellent swimmer and have life-saving training, references, Bruce, Ext. 6142.

One- or two-bedroom furnished accommodation from September to December for visiting professor, John, 709-637-6214 or 709-834-0969, or fax 709-639-8125.

W4 international tractor for restoration project, any condition, free removal, Paul, Ext. 3924 or 846-0374 after 6 p.m.

Rides needed over the summer to Toronto, Ottawa, Niagara Falls, Samia and Montreal for single passenger to share gas money and/or driving, Deb, 821-4229.

Exchange student wants roommate from the end of August to December, close to campus, send e-mail to kloison2@students.wisc.edu.

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Four-year-old male Australian shepherd needs a good home, intelligent, faithful, protective, good with older children, needs freedom to roam, 823-9751.

Young female brown tabby, free to good home, Bonnie, 651-0434.

Senior executive to housesit in Kitchener to Milton area for three, six or 12 months, 519-767-0062 or fax 519-767-6733.

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Membrane vesicles allow antibiotic to penetrate cells, CBS study finds

by Margaret Boyd

A model developed by two U of G microbiologists could help in the design of new delivery systems for therapeutic agents against intracellular parasites.

Research associate Jagath Kadurugamuwa and Prof. Terry Beveridge developed the model to test whether membrane impermeant therapeutic agents such as antibiotics could be delivered into mammalian cells using bacterial membrane vesicles. They found that antibiotics could be entrapped in membrane vesicles, which could then be fused with mammalian cells, liberating the antibiotic into the cells. These findings could also be applied to other drug therapies such as anti-cancer agents.

Details of the model were announced recently at the annual general meeting of the American Society for Microbiology in Miami Beach, Florida. Funding for the research was provided by the Canadian Bacterial Disease Network, part of the National Centres of Excellence program.

Kadurugamuwa explains that not all freely suspended antibiotics can penetrate tissue; those that are impermeant to cells (such as gentamicin) have no effect on bacteria that invade cells such as mycobacterium, listeria, shigella and salmonella. The membrane vesicles, which are key to the researchers' discovery, are shed by many gram-negative pathogenic bacteria. In this case, the quantity

of vesicles was increased by brief exposure of the vesicle-producing bacteria to a surface active agent.

For their experiment, the researchers took gentamicin, which is usually not active on bacteria growing inside cells, and encapsulated it in membrane vesicles. These gentamicin vesicles were targeted to an intestinal epithelial cell line that was infected with *Shigella flexneri*, a pathogen notorious for invading and multiplying inside this tissue. Kadurugamuwa and Beveridge were able to demonstrate that the antibiotic was able to penetrate mammalian tissue and kills the pathogen only when packaged inside the vesicles.

Immunogold electron microscopic labelling of thin-sections with antibodies specific to *S. flexneri* demonstrated the adherence and fusion of membrane vesicles with the human intestinal cell. Antibiotic was detected in the cytoplasm of host cells, indicating that the drug had penetrated into cells following the fusion of the vesicles. This process was compared with treatment with soluble gentamicin, which had no effect on intracellular bacterial growth, confirming that gentamicin could only enter the cells when packaged into membrane vesicles.

"If you have a pathogenic bacterium infecting and multiplying within mammalian tissue and expose these cells to our membrane vesicles containing the antibiotic,

these vesicles will convey the drug into the tissue and kill the pathogen," says Kadurugamuwa. He adds that there are few freely suspended antibiotics that can penetrate mammalian cells to kill intracellular pathogens. In fact, this general statement can be made about a number of therapeutic agents, and it is possible that these same vesicles could be used to transport a number of clinically active agents (such as anti-tumor drugs) to specific tissues. To this end, the next step will be to pursue a clinical application for the findings and target specific cell lines. □

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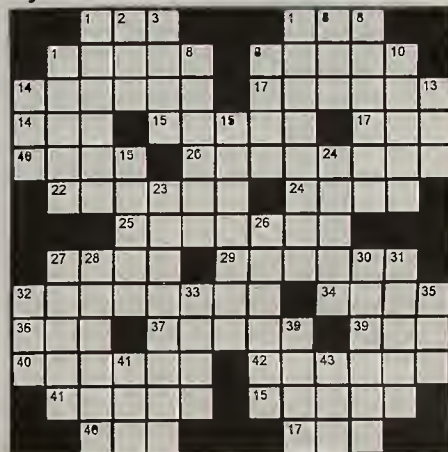
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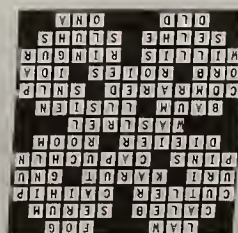
1. Judges' profession
4. Sea mist
7. Joshua's companion
9. Whey of milk
11. Knife dealer
12. Mint attractive to felines
14. News agency
15. Done for
17. Wildebeest
18. Safety items
20. Woman's hooded cloak
22. Health-food nut
24. Have lodgings
25. Good-for-nothing
27. Oz creator
29. Take advice
32. Likened to
34. Cutting sound
36. Sphere
37. Mechanical routines
39. Crete mountain
40. Actor Bruce
42. Record on a cash register
44. Fishing net
45. Blighted neighborhoods
46. Carried out
47. "Ode _____ Grecian Urn"

DOWN

1. Dante's teacher
2. Wholly
3. Seven day period
4. Main attractions
5. Fragment of food
6. Overly zealous
7. Boy archer
8. Suspenders
9. Porgy
10. Tiny portion
11. Eight ounces
13. Play on words
16. Neck covering
19. Monopolize
21. Young horses
23. Tropical leguminous tree
26. Contract

additions

27. Tennis player Becker
28. Walked leisurely
30. Riddle
31. Spider's nest
32. Source of milk
33. Pinkish red
35. Baby food
38. Fodder tower
41. 52, in Roman numerals
43. Religious woman



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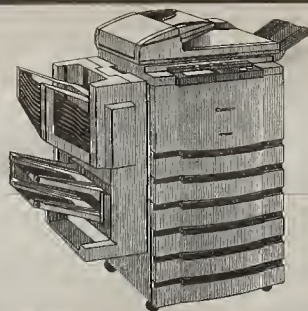
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AT GUELPH

41st
Year

Volume 41 No. 15

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July 9, 1997

AT A GLANCE

Come to the barbie!

The Central Student Association (CSA) holds its 24th annual community barbecue July 10 on Branion Plaza. (Rain location is the University Centre courtyard.) The action kicks off at 4 p.m. with children's and adult's activities, followed by dinner from 5:30 to 7:30 p.m. The CSA will present its annual Community Service Award and Teaching Excellence Award at 7:15 p.m. Live entertainment will follow with Us and Wilbur, the Henrys, Dayna Manning and Big Rude Jake. Meal prices on the day of the barbecue range from \$6.50 to \$7.50 general, \$4 for children.

On the move. The Centre for International Programs, currently located on Level 4 of the University Centre, is setting up shop in its new location on the second floor of Day Hall July 18.

Included with this issue of *At Guelph* is the Bookshelf Cinema's *Off the Shelf*.

A boost for agri-food. Guelph is the new headquarters of Ontario Agri-Food Technologies, a consortium aimed at generating wealth for the agri-food sector... *page 4*

Wellness tops the charts. Student Health Services puts the spotlight on health promotion and wellness... *page 5*



On a roll. President Mordechai Rozanski lends a hand with the new gardens taking shape in front of the conservatory beside the University Centre. Funded by alumni and gifts-in-kind from local companies such as nurseries and gravel end paving firms, the project will feature four separate gardens — fall, winter, spring and summer — divided by stone walkways. Project director Prof. Ron Stoltz, Landscape Architecture, and four in-course students are hard at work installing the walkways and preparing the fall garden, which they expect to have planted this week. Describing the project as "an incredible collaborative effort," Stoltz lauds everyone involved for their co-operation and goodwill. In the photo, from left, are student Theresa Barclay; former OAC dean Cley Switzer, chair of the conservatory and garden committee; Rozanski; and students Lori-anne Bonham, Sarah Werd and Curtis Bilyea.

Photo - Trine Koster

Leslie named FRSC

by Ann Middleton

Professor emeritus John Leslie has been named a fellow of the Royal Society of Canada, the 22nd U of G professor to be so honored.

Retired from the Department of Philosophy, Leslie is internationally known for his writings on cosmology (the study of the structure and workings of the universe) and the philosophy of religion. The RSC citation describes him as having "an international reputation for innovative solutions to some of the oldest and most challenging philosophical problems."

Leslie's most recent book is *The End of the World — The Science and Ethics of Human Extinction*, published by Routledge in the United Kingdom and the United States, now in its third printing and scheduled to come out in paperback in 1998. The book, which was chosen by the Library of Science book club, warns that the human race is under greater threat than was previously thought.

When he started doing research for the book, Leslie put the odds of the human race surviving for the next 500 years at 95 per cent. He now estimates the odds are not above 70 per cent. But this is not a doom-and-gloom book. "The odds remain encouragingly high," he says. "I am quite optimistic and think there is a good chance we will go on for many thousand centuries."

Leslie got sidetracked from his first interest in the philosophy of

Rozanski reappointed to second term

Mordechai Rozanski has been reappointed president of the University of Guelph, extending his term to 2003, Board of Governors announced June 25.

Rozanski, U of G's sixth president, was first appointed in 1993. His reappointment follows a mandatory presidential review undertaken this spring by the board.

In announcing the reappointment, B of G chair Doug Dodds said Rozanski has done "an out-

standing job leading the University of Guelph during very challenging times. He has provided strong, innovative leadership and is an enthusiastic spokesperson for the University. He is the ideal person to lead the University of Guelph into the new millennium. "The board is confident that he will continue to enhance the quality of the University and that he will be the driving force behind a successful major fund-raising campaign that will help Guelph meet its objectives over the next few years."

B of G commended Rozanski for his contributions and achievements during a period of fiscal challenge. With his senior management team and many others, he has advanced a series of institutional initiatives designed to attract superior students, support research and generate new sources of revenue. Guelph's endowment has grown more than

100 per cent during Rozanski's four-year term.

At the same time, he has led the University through one of the most intensive planning processes in its history, restructuring academic programs and administrative units.

In accepting the reappointment, Rozanski said: "It is a privilege to serve as president of the University of Guelph. I am gratified by the confidence and support I have received from Doug Dodds, the Board of Governors and the University community. I am well aware that our university's success is built on the dedication of its faculty, staff, administration, students, alumni and friends, and I greatly value their many contributions. I am confident that, working together, we will successfully meet the challenges that lie ahead and achieve even greater distinction for the University of Guelph." □

See **BOOK** on page 2



Prof. John Leslie



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Campus publications win CCAE silver and bronze

U of G communicators have won silver and bronze awards from the Canadian Council for the Advancement of Education (CCA) for a pork producers' newsletter and a recruiting brochure designed to give prospective students a feel for campus life.

At the CCAE annual conference in June, Owen Roberts of the Office of Research picked up a silver award for *PigPens*, a newsletter produced on campus and distributed by the Ontario Pork Producers' Marketing Board to its members. Earlier this year, the publication received an award in the Agricultural Communicators in Education competition.

A U of G brochure titled *Hang Your Hat Here* received a bronze award from CCAE. The eight-page publication was produced as a co-operative effort of Registrar Services, Student Housing

Services, Hospitality Services, the Office of First-Year Studies, Communications and Public Affairs (C&PA) and Graphic Services. It was first distributed last summer to students offered admission to U of G, resulting in a waiting list for residence rooms and a doubling of applications to the University College Connections program. The brochure was a staple at liaison events and high school visits during the past year and was mailed to applicants again this summer.

Written by Mary Dickieson of C&PA and designed by Chris Boyadjian of Graphics, the brochure focuses on the non-academic aspects of the University. It gives prospective students a visual feel for the residence lifestyle available at Guelph. □



Let's get cooking! Campus celebrity chefs welcome alumni back to campus June 20 at a barbecue on Johnston Green. From left are FACS dean Michael Nightingale; Nancy Sullivan, vice-president (finance and administration); Chuck Cunningham, director of enrolment management and registrar services; OVC dean Alan Meek; and College of Arts dean Carole Stewart. A large tent was erected on the Green as a focal point for Alumni Weekend activities, which also included the president's luncheon and a big-band dance June 21. Photo - Martin Schwalbe

Book well received by academics

Continued from page 1

religion when he became aware of British mathematician Brandon Carter's 1980 "doomsday argument." According to Carter, we should distrust any theory that pictures us as exceptionally early among all humans who will ever have lived. As Leslie became more immersed in the study of cosmology, he considered it his duty to set down and evaluate the risks facing humankind so that individuals and governments could make intelligent choices.

The End of the World has been enthusiastically received by academics. Sir Martin Rees, a professor of astronomy at Cambridge, describes it as a "marvellously provocative book . . . bringing zest and clarity to the gloomiest of themes." Lille University of

Sciences and Technologies professor Jean-Paul Delahaye predicts the book will be a great success, although "its ideas will be hotly disputed."

Leslie's earlier work includes *Universes*, published in 1989 (the paperback edition came out last year), which looks at both the philosophy of cosmology and the philosophy of religion. The book was chosen by the Astronomy Book Club and the Library of Science. He edited *Physical Cosmology and Philosophy* (1990), one of a new series on philosophical topics published by Macmillan in New York, also chosen by the Library of Science and now in its fourth printing.

But since his retirement in 1996 (he took early retirement to spend more time writing), Leslie has returned to the philosophy of religion,

in particular the study of the neoplatonist view of God explored in his first book, *Value and Existence* (1979). He is currently at work on a book incorporating ideas on a Spinozistic vision of God and a neoplatonist's pantheism.

Leslie has held several visiting professorships at universities, including the Institute of Astrophysics at the Université de Liège in Belgium, the University of Calgary and the Australian National University. He also participated in a Newton Tercentenary Conference on "Science, Philosophy and Theology" at the Vatican.

Despite the widespread recognition for his scholarly work, Leslie says: "I feel very, very lucky. A lot of people who deserve this honor don't get it." □

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Board of Governors report

At its final meeting of the academic year July 25, Board of Governors approved a number of improvements to University pension plans related to inflation protection, surviving spousal benefits, early retirement and plan membership.

- Full CPI ad hoc inflation protection will be made to all pensions in payment at a level of 1.75 per cent, the inflationary increase in the past year. This applies to all lifetime pensions in payment from the plans on Sept. 1, 1997, with members retired less than one year receiving a pro-rata share.
- A permanent improvement of one-eighth per cent will be made to the formula for future inflation protection—from the current CPI minus 2.25 per cent to CPI minus 2.125 per cent. CPI increases under the existing plans are being capped at eight per cent.
- In 1993, pensions in payment were raised to a level of CPI minus two per cent for the years 1984 to 1992. Under the current improvement, those receiving a pension who retired before 1984 will have their pension increased so that the cumulative level of indexation for all years before 1992 is also at CPI minus two per cent. The actual increase to retirees will vary with the length of time they have been retired.
- The pension payment form for retired members who are alive and in receipt of a pension with a 50-per-cent survivor benefit as of Sept. 30, 1997, will be changed so that the surviving spouse receives a 60-per-cent pension on the member's death.
- U of G will adopt a permanent Rule of 85 (sum of age and credited service), allowing employees who meet this rule to retire with an unreduced pension. Minimum retirement age is 55.
- As of Oct. 1, 1997, all newly hired regular full-time employees will be required to join the

appropriate pension plan of the University.

B of G also approved the audited statements for the professional, retirement and non-professional pension plans and combined financial statements for the three plans as of Sept. 30, 1996.

Agreement ratified

B of G ratified a two-year memorandum of agreement, arrived at through mediation, that gives faculty and librarians an economic adjustment of 0.6 per cent in each year. This is in recognition of the three days without pay taken by faculty and librarians in 1996/97. Faculty and librarians will receive time and performance step increases July 1, 1997, and July 1, 1998, based on performance evaluations.

U of G is also honoring its commitment to restoring salary progression frozen during the social contract period over a three-year period beginning July 1, 1998.

Board membership

Prof. Ann Gibbins, chair of the Department of Animal and Poultry Science, has been appointed to B of G as a Senate representative for a three-year term that began July 1.

Gerrit Bos, a senior analyst with Computing and Communications Services, has been re-elected as the staff/alumnus elected member on B of G. His new three-year term began July 1.

Retiring from the board are Prof. David Prescott, Beverly Mascoll, Louise Tremblay, Karen Iles, Jennifer Story and Daniel Pauze.

The following governors will chair B of G's committees for a one-year term that began July 1: David Lees (finance), Tanya Lonsdale (physical resources and property), Simon Cooper (membership and negotiations/senior compensation), Greg Clark (audit), John Lahey (pensions and benefits) and Tony Arrell (external relations). □



On hand to see how things are stacking up at the Tri-University Library Consortium Annex are, from left, MPP Tom Froese; president Mordechai Rozanski; Loma Marsden, president of Wilfrid Laurier University; and Jim Kalbfleisch, vice-president, academic and provost, University of Waterloo. Photo - Martin Schwalbe

Tri-University Library Consortium Annex opens to integrate collections

The opening of a joint library facility June 16 by representatives of the Ministry of Education and Training, U of G, the University of Waterloo and Wilfrid Laurier University marked the beginning of a unique collaboration.

The first step of an agreement to integrate library collections and services at the three universities, the Tri-University Library Consortium Annex will improve access and reduce costs. It is the first project of its kind in Ontario.

In February 1995, the provincial government provided a special grant of \$400,000 to support the purchase and renovation of an existing warehouse for the annex.

"This is the type of collaboration and partnership that can be very beneficial to postsecondary

communities," said MPP Tom Froese, parliamentary assistant to the minister of education and training. "This is particularly true in these challenging times when we all have to find ways of doing more with less."

Located in the west end of Guelph, the annex offers improved library service to students, faculty and staff of all three campuses. By combining all lower-use library holdings into one collection, duplication is eliminated and the combined collection is more readily available to all three universities. In addition, campus space is freed up at a fraction of the cost of making additions to on-campus library buildings.

The annex currently holds about 500,000 volumes and has the ca-

capacity for at least 13 years of projected growth.

The facility will deliver materials on request to any of the three campuses, allowing the sharing and rationalization of library materials among the institutions. It is equipped with technologies that allow the rapid delivery of required materials, most often in electronic format. On-site use of these collections will also be possible.

The Tri-University Library Consortium will give users at all three universities access to more than seven million items in the three collections. Later this year, the consortium will launch a shared library computer system. □

Stewart reappointed dean of the College of Arts

Prof. Carole Stewart has been re-appointed dean of the College of Arts for a second term that begins Sept. 1, 1997. She was first appointed dean in 1992 and chaired the Department of Philosophy from 1985 to 1992.

Stewart told *At Guelph* last week that she is "very pleased by the confidence shown in me by the review committee and the Board of Governors in reappointing me for a second term. I look forward to several more years of

working with my colleagues in the College of Arts, helping to build on the strengths we have continued to develop despite the budgetary climate.

"I continue each year to be increasingly impressed by the variety and strength of the achievements of my colleagues among the faculty, staff and students in the college and hope to be able in the coming years to bring these achievements to the greater attention of the wider community." □

Knight's term extended

President Mordechai Rozanski has approved the extension of the term of College of Social Science dean David Knight to next May.

In view of recent discussions on restructuring and the possible creation of a new college based on

departments in CSS and FACS, the president has accepted the provost's recommendation, based on his consultations, that Knight's term not conclude on Dec. 31, 1997, but on May 1, 1998. □

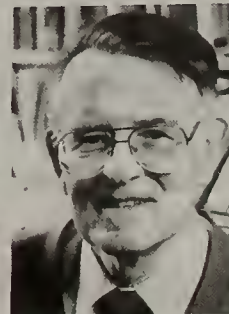
Obituary

Animal-breeding strategies earned acclaim

Professor emeritus Charles Smith of the Department of Animal and Poultry Science died June 16 in Guelph. He was 64.

The son of an Aberdeenshire farmer, Prof. Smith studied animal husbandry at Aberdeen University and earned his PhD in animal breeding, genetics and statistics at Iowa State. He worked for the Animal Breeding Research Organization (ABRO) at Edinburgh for 10 years, lectured in human genetics at Edinburgh University for six years, then returned to ABRO as head of applied genetics.

His theoretical work has included investment appraisal in livestock improvement, cost-benefit analysis of U.K. pig improvement, derivation of economic weights using bio-economic models, increased genetic gains by new breeding sys-



Charles Smith

tems based on embryo transfer in dairy cattle and sheep, and application of new technologies to livestock improvement.

Prof. Smith joined U of G in 1987 to hold the J.C. Rennie

Chair in Animal-Breeding Strategies. Among the many recognitions for his work, he was elected a fellow of the Royal Society of Edinburgh in 1990. He retired from Guelph in 1996 and was named professor emeritus in January 1997.

To mark his retirement and honor his achievements, an international symposium on animal-breeding objectives and strategies was held on campus last June. All of the speakers were international leaders in their field and had all trained or worked with Prof. Smith during his career.

He is survived by his wife, Bonnie, of Guelph; his daughter, Maggie, of London; his son, Donald, of Edinburgh; and three step-children, Daniel, Sarah and Rebecca. □

Ontario Agri-Food Technologies comes to Guelph

by Margaret Boyd

The newly formed Ontario Agri-Food Technologies, headquartered in Guelph, plans to do for agricultural biotechnology in Ontario what Ag-West Biotech Inc. has done in Saskatchewan.

Ontario Agri-Food Technologies bears more than a passing resemblance to Ag-West Biotech, a major research centre for applying biotechnology to the agri-food industry. And it will benefit from the same leadership.

Murray McLaughlin, an international expert in biotechnology who has run Ag-West since 1989, became president of Ontario Agri-Food Technologies July 1, setting up shop at 1 Stone Rd. Recipient of the 1996 Agri-Marketer of the Year Award from the Canadian Agri-Marketing Association, McLaughlin is currently serving as Saskatchewan's dep-

uty minister of agriculture. Under his leadership, Ag-West attracted 28 biotechnology companies to the province.

Guelph was chosen for the headquarters of Agri-Food Technologies because of the presence of the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and expertise housed within U of G, its Guelph Food Technology Centre and Laboratory Services.

The objective of Ontario Agri-Food Technologies — a consortium of 12 grower associations, five Ontario universities, 11 industries and OMAFRA — is to generate wealth for the province's agri-food sector. It's being funded with \$2 million in start-up funds from consortium members and the provincial government to pursue its strategies. In addition, members will pay an annual fee of \$2,500.

By focusing on biotechnology, the non-profit consortium will take intellectual discoveries and develop products to provide a unique competitive advantage in the global marketplace, says Prof. Gordon Surgeoner, Environmental Biology, director of the OMAFRA/U of G plants program and chair of the consortium's board of directors.

"Knowledge and the ability to commercialize will be the currency of the 21st century," says Surgeoner. "The consortium will develop financing and the research teams needed to take discoveries and turn them into products in the supermarket."



Murray McLaughlin

The consortium will also collaborate and co-operate with Ag-West Biotech, which focuses on canola and grain crops, he says.

"Ontario has tremendous intellectual capacity built on a foundation of basic research. Agri-Food Technologies will allow us to put together joint research ventures and form partnerships around innovations and take them to the marketplace. Being able to continually expand our knowledge base and make it available to our producers and food industry is how we will maintain our agri-food industry."

The primary strategies of Agri-Food Technologies are:

- to develop, support and co-ordinate research programs among Ontario's institutions;
- to assist in the commercialization of biotechnology products;
- to stimulate the awareness, acceptance and use of biotech-

nologies by the agri-food industries;

- to educate industry, government and the public about the value, benefits and issues related to biotechnology; and
- to help build the visibility and awareness of Ontario's agricultural biotechnology industries in the rest of Canada and around the world.

The other university members of the consortium are Toronto, Brock, Waterloo and Queen's. Grower association members are the Dairy Farmers of Ontario, Ontario Bean Producers' Marketing Board, Ontario Cattlemen's Association, Ontario Corn Producers' Association, Ontario Federation of Agriculture, Ontario Flue-Cured Tobacco Growers' Marketing Board, Ontario Fruit and Vegetable Growers' Association, Ontario Pork Producers' Marketing Board, Ontario Soil and Crop Improvement Association, Ontario Soybean Growers' Marketing Board, Ontario Vegetable Growers' Marketing Board and Ontario Wheat Producers' Marketing Board.

Industrial members are the Toronto Biotechnology Initiative, Cyanamid Crop Protection, Du Pont Canada Inc., First Line Seeds Ltd., Lingwood Farms Limited, Monsanto Canada Inc., Novartis Seeds Canada Inc., Pioneer Hi-Bred Limited, Royal Bank of Canada, W.G. Thompson and Sons Limited and AgrEvo Canada Inc. □



Excuse me, but what's that bug doing in my food?

Got the munchies? Looking for that perfect summertime treat? Prof. Peter Kevan, Environmental Biology, may have just what you're looking for — if you're not too squeamish, that is.

Kevan and Yves Prevost of Lakehead University recently introduced hundreds of people to the culinary delights of roast cricket trail mix and living wax worms at the Discovery Channel's fall launch gala event in Toronto. Invited by Discovery to present an interactive demonstration on "Insects as Human Food," Kevan and Prevost offered both a display of books from around the world and a chance to try out some insect fare.

Kevan says the roast cricket trail mix was tried "with gusto" by hundreds of the gala guests. "Most people agreed that the crickets tasted of spicy beef," he says. "No one who tried the treat found it distasteful, but some had to screw up their courage and faces to take a step into the unknown."

More adventurous guests tried the living wax worms. "These pests of beehives have a delicate almond-like flavor and are juicy delectable," he says. "They can also be deep-fried, which makes them swell and resemble popcorn."

Kevan notes that although eating insects is considered disgusting by most people of European cultures, it's widely accepted throughout Mexico, Central and South America, Asia, Africa and Australia. "Many insects are considered gourmet delicacies and a treat in the everyday diet," he says. □

GRAD NEWS

The final examination of Clara Lavandier, an M.Sc. candidate in the Department of Human Biology and Nutritional Sciences, is July 17 at 10 a.m. in Room 336 of the Animal Science and Nutrition Building. The thesis is "The Role of Mono-ADP-Ribosylation of EF-2 in Protein Synthesis During Fever." The adviser is Prof. Laura Nagy.

Interested members of the University community are invited to attend. □

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by Nora McCabe

Healthy students are better students.

Staff at Student Health Services (SHS) take these words as gospel. "Sick or incapacitated students don't study, and students who don't study drop out," says director Jose Robinson. "We see our primary purpose as contributing to the success of the University's academic mission by meeting the health education and clinical-care needs of its students."

Notice the priorities. Health promotion and disease prevention, incorporated with primary medical care. A shift to wellness from disease.

It's an approach that responds to disease, but also tries to affect the future with an emphasis on health promotion and wellness through education.

"Education doesn't stop at the classroom," says Robinson. "It extends to the cafeteria and residence." So although SHS's walk-in clinic is there to provide needed medical attention, "our clinic program takes a holistic approach to health. We both promote the creation of a healthy environment for students to live and work in and put emphasis on the prevention of

disease, now and 20 to 30 years later on."

To that end, not only do clinic doctors focus on prevention, but SHS also prominently features its Wellness Resource Centre, which was started specifically to help students develop balance in their lives. Located right next to the reception area, it's stocked with brochures, pamphlets and videos on topics such as stress management, racism, sexual assault, sexually transmitted diseases, acquiring sun sense and eating right.

Co-ordinated each semester by a student manager under the supervision of a wellness educator — and staffed by a team of peer educators — the centre puts on workshops and seminars dealing with lifestyle choices such as alcohol and drug consumption, fitness and diet. It also runs the Wellness Education Training Troupe (WETT), a social-action theatre group that targets risk behaviors for 18- to 24-year-olds.

"We use WETT to raise difficult and controversial social issues in a safe environment," says Robinson. "Peer educators are a very effective way to get across messages about what happens when students make certain choices — choices that affect

their physical, emotional, social and spiritual health."

Currently located on the first floor of Macdonald Hall but scheduled to move into the Powell Building this fall, SHS provides around-the-clock physician coverage to full- and part-time undergraduate and graduate students and their families. To say the service is popular is an understatement. Each year, the medical staff, made up of family and sports medicine doctors, registered nurses, dietitians and wellness educators, chalk up more than 32,000 visits for services.

Between September and April, an average of 170 people turn up daily for anything from annual and sports physicals, emergency first aid, minor surgery and short-term infirmary care to allergy shots, wart treatments, morning-after pills, confidential STD and HIV/AIDS testing, travel immunizations and counselling. An on-site lab performs about 16,000 tests a year.

The service is also an economic success that pays its own way, Robinson says.

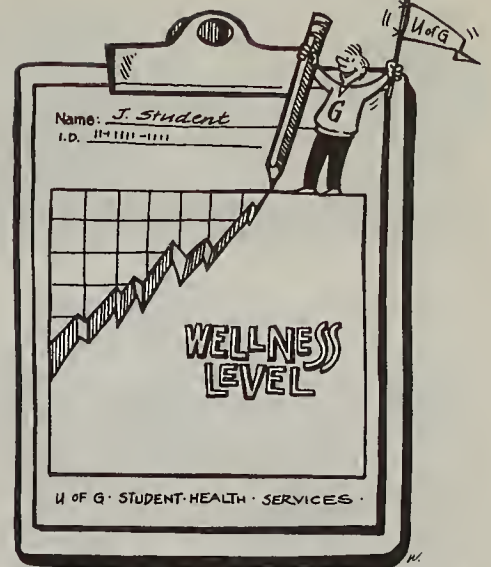
Keeping 13,000 students healthy during pressure-filled 12-week semesters is a boon to more than just the University admini-

stration and staff. Local emergency and community health facilities benefit, too. Most U of G students come from outside a 50-kilometre radius of Guelph and don't have ready access to their family doctor, but they can turn to SHS for almost all their needs. Factor in that nearly one-third of students opt to live in residence and it's clear that the clinic diverts ambulatory patients away from local resources, which would otherwise be swamped trying to respond to the needs of a community the size of a small city that

arrives in September and leaves in April.

In a 1993 survey, students rated SHS as one of only two essential services on campus. And a study conducted this May found that 98 per cent of SHS's clients were satisfied with the services they received.

"Our clinical staff tries to respond to the very specific needs of our clients," says Robinson. "How they interact with our services is important. We want them to see us as an integral part of the academic program." □



A good summer's read helps new students get a jump on fall

by Barbara Chance

Read it and reap.

That's what hundreds of entering U of G students will be doing over the next two months — reading a series of thought-provoking articles and reaping the rewards when they arrive on campus primed for the academic challenge of university.

They're participating in Guelph's summer reading program, which was launched last year by the Office of First-Year Studies (OFYS) as a pilot program with 500 students and was so successful, it's been expanded to include all new students.

One measure of its success is its recent selection as Program of the Year by the Student Affairs and Services Association of the Canadian Association of College and University Student Services. The award goes to a program that exhibits innovation and creativity, makes a contribution to student and/or professional development and has significant meaning for its home institution. It's not the first time OFYS has received the award; in 1994, the kudos went to the University College Connection (UCC) program.

For U of G, the significant meaning of the summer reading program lies in its three major goals, says Mildred Eisenbach, co-ordinator of entering-year programs in OFYS. The program aims to introduce new students to the academic ethos of the University community, give them an opportunity to participate in academic discussions on a relevant issue, and help them build connections with Guelph's faculty, staff and senior students, she says.

A collaborative effort involving

many people across campus, the program is designed by a committee headed by Eisenbach and made up of students, faculty and staff. This year's members were Kent Flint, Central Student Association spokesperson; Janet Kaufman of the U of G Library; Prof. Ann Wilson, Drama, co-director of OFYS; Shelly Birnie-Lefcovich, co-director of OFYS; Prof. Bill Hughes, Philosophy; residence managers Chad Hyson and Will Pascoe; and Dorothy Hadfield, a master's graduate of the Department of English.

For this year's program, the committee decided to stick with last year's theme — freedom of expression. During July and August, all new students will receive a package of reading materials related to this topic, including a covering letter, a critical thinking guide and a list of questions to ponder. Taken largely from the popular press, articles in the package will examine such issues as censorship on the Internet, how media affect society's values, the community's right to know, racism and the genome project.

When the students arrive on campus for orientation in September, they will participate in seminar-type discussions hosted by senior students and led by a faculty member. Last year, 19 faculty and librarians were recruited to facilitate the discussion groups. This year, the program needs more than 100 faculty and senior administrators, says Eisenbach. The senior students involved in the program are residence managers, residence assistants and peer helpers.

The discussion groups will be complemented by the annual welcome ceremony for all new stu-

dents, which will also focus on freedom of expression.

"These events give students a chance to participate in an intellectual activity while meeting in a relaxed informal setting with other students, faculty and staff," says Eisenbach. "And they emphasize the academic nature of our orientation program."

Last year, some of the students in the pilot program, which was targeted at Lambton Hall residents and off-campus students in UCC, were alarmed when they first received their package of materials in the mail.

"Initially, I was a little shocked and disappointed that I had 'homework' to do over the summer," said one student in a follow-up evaluation of the program. "But after some thought, it made me appreciate the University as learner-centred and concerned about thinking and academics."

Said another student: "Although leery at first, I enjoyed our discussions very much, and I really appreciated the opportunity to meet a prof before classes started."

The program also got high marks from faculty participants.

"It was a wonderful program," says Prof. Rick Yada, chair of the Department of Food Science. "It was informative, it contributed to the students' feeling of academic confidence and it helped them get to know other students and faculty."

Yada says he was impressed with the level of discussion on some controversial topics. "I was just amazed at how insightful these kids were, especially when I think back to the days when I was 18 or 19. I think it would be good for a lot of faculty to get involved in this program. It's a wake-up call to see the kind of quality of students we're getting."

Prof. Alastair Summerlee, dean

of graduate studies, describes last year's program as "exciting, innovative and rewarding for students and administrators alike."

He's looking forward to making a return appearance this year and encourages other faculty to get involved as well.

Eisenbach says the pilot program was exciting because of the energy and enthusiasm of the faculty, staff and students who participated. "It was gratifying just walking through Lambton Hall and hearing all those voices raised in discussion," she says. "It's the first program of its kind in Canada that has taken off."

This year's new-student welcome ceremonies are Sept. 2 at 10 and 11 a.m. in War Memorial Hall. The discussion sessions run over the noon hour for off-campus students and from 4:30 to 6 p.m. for on-campus students. □

Come on, let's get STARTed!

U of G's annual START program to give new students a taste of university before they officially arrive on campus in September, will run in one- and two-day sessions throughout July. The program kicked off July 7 and continues July 14 and 15, July 21 and July 26 and 27.

Organized by the Office of First-Year Studies (OFYS), the START program has been growing steadily since it was launched in 1975, says Mildred Eisenbach, co-ordinator of entering-year programs. Last year, attendance exceeded 700.

START gives new students an opportunity to attend a lecture, talk to a program counsellor, meet other new students, interact with Guelph faculty, staff and senior students, and learn what services and resources are available. Those attending a two-day session can also check out residence life.

This year for the first time, START participants will also receive their student photo ID card and will

be able to use their Express Card to buy food on their fall meal plan, says Eisenbach. This is aimed at giving the students a sense of belonging on their new campus, she says. "Not only will they reap the benefits of the sessions they attend at START, but they'll also have a tangible piece of the University to take home."

The parents of STARTers also have a chance to get to know the U of G campus. Alumni Affairs and Development is offering a program for parents at each START session, giving them a chance to talk to staff, faculty and students, learn about the academic and personal support systems available at Guelph, and visit campus residences, the library and athletic facilities.

OFYS welcomes the participation of all members of the University community in the START program, says Eisenbach. For more information, call Greg Reade or Lia De Pauw at Ext. 2104. □

Community

NOTICES

Plant sale

The Arboretum Auxiliary will hold its fifth annual plant sale Sept. 13 at the R.J. Hilton Centre. It runs from 9 a.m. to 3 p.m. rain or shine. The sale will include 400 varieties of native and exotic perennials, rock garden plants, alpiners, native wildflowers, ferns and grasses, as well as 100 varieties of trees, shrubs and vines. A silent auction of more than 50 rare and unusual specimens will run from 9 to 11 a.m. A catalogue will be available in August. For more information, call Ext. 2113.

Osteoporosis update

The OsteoBus, a mobile osteoporosis information centre travelling across Canada this summer, visits Guelph at the end of July. On board the bus are five interactive computer kiosks, a pharmacist and a dietitian. The bus will be at the Shoppers Drug Mart in Stone Square July 31 from noon to

8 p.m. and at Shoppers Drug Mart at Willow West Mall Aug. 1 from 9 a.m. to 5 p.m.

Summer fun

Guelph Museums presents its annual Summer Fun Club for children aged five to 10 July 21 to 25. This year's themes are "River Rage" mornings at McCrae House and "Summer Memories" afternoons at Guelph Civic Museum. Cost is \$10 per session. For more information, call 836-1221.

Students wanted

Students are needed to work at new-student registration Sept. 2 from 7:45 a.m. to 4 p.m. The wage is \$7.71 per hour. Applications are available at the Academic Records section on Level 3 of the University Centre.

Spaces available

The U of G Child-Care and Learning Centre is accepting children

aged 18 months to five years for full- or part-time care. For more information, call Ext. 2682.

Tea is served!

McCrae House is hosting a series of summer teas in the garden throughout July and August. They run from 2 to 4 p.m. July 16 and 30 and Aug. 6, 13 and 27. Cost is \$5. Reservations are required. For information, call 836-1221.

Medieval times

The Kitchener-Waterloo branch of the Society for Creative Anachronism is hosting its seventh annual "Forward into the Past" medieval collegium July 12 from 9 a.m. to 5:30 p.m. at Wilfrid Laurier University. The day features lectures, practicum, dancing, fashions and armor displays. For more information, call Amy Menary in Kitchener-Waterloo at 886-8261.

Summer worship

During the summer, Roman Catholic mass will be held Sundays at 10:10 a.m. in the lobby of the Landscape Architecture Building. The Open Door Church of non-denominational worship runs on the second Sunday of each month at 7 p.m. at Harcourt United Church, 87 Dean Ave. Services are scheduled for July 13 and Aug. 10.

Garage sales

The Guelph Food Bank is holding a series of fund-raising garage sales this summer — July 25 and 26, Aug. 8 and 9, Aug. 22 and 23, Aug. 29 and 30, Sept. 12 and 13 and Sept. 19 and 20. Sales run from 8 a.m. to 8 p.m. at 100 Crimea St. If you have any items to donate, drop them off at the Food Bank or call 767-1380 to arrange pickup. □

The fine art of summer

The Macdonald Stewart Art Centre is again offering summer art camps for children aged five to 12. Because of the success of past camps, the centre has doubled the spaces available this year, says promotion co-ordinator Greg Klages, but class sizes remain at a maximum of 12.

With current exhibitions at the art centre as their inspiration, three themed classes will encourage children to experiment with a variety of media and methods of working, says Klages. Each class includes group and individual work, tours of the gallery, time to make art and a chance to investigate what professional artists do.

The art centre is offering full-day classes for eight- to 12-year-olds and half-day classes (mornings or afternoons) for five- to seven-year-olds.

For information about schedules and costs, drop by the art centre or call 837-0010. □

CLASSIFIEDS

FOR RENT

Four-bedroom home on Lake Huron in prestigious old cottage area of Kincardine, \$495 a week, 821-5157.

Furnished two-bedroom cottage on Trent Canal in Campbellford, fishing, boating, swimming, golf nearby, available weeks and weekends until October, \$495 a week, 824-7551.

One-bedroom basement apartment in Stevenson/Speedvale area for quiet non-smoking female or professional couple, fridge, stove, laundry, parking, \$500 a month plus one-half of utilities, 836-7587 evenings.

Furnished four-bedroom home suitable for visiting faculty or graduate students, 15-minute walk to campus, non-smokers, no pets, available mid-August to end of December, \$800 a month plus utilities, Peter, Ext. 8165, 837-8461 or send e-mail to pkim@ana.mathstat.uoguelph.ca.

Furnished three-bedroom home near Exhibition Park, large kitchen, finished rec room, laundry, available July and August, \$950 a month inclusive, 837-1732.

FOR RENT

Furnished two-bedroom home on country estate near Rockwood, fireplace, solarium, deck, rent to be negotiated, tenants paid hourly fee to tend lawns, farm animals and other chores, must be willing to act as guardians and sitters when the owner is away, available Sept. 1, reply to Box 242, Rockwood NOB 2K0.

Furnished two-bedroom house, available Sept. 1 to April 30, 1998, non-smokers, \$900 a month inclusive, Ext. 3645 or 822-2460 evenings.

Two-bedroom apartment, fully equipped kitchen, television/VCR, Jacuzzi ensuite off master bedroom, available nightly, weekly or monthly for visiting executive guests or friends of University staff, Carol, 823-1857 or 837-7537.

Furnished room for non-smoking female in Ironwood/Kortright area, 35-minute walk to campus, laundry, fridge, freezer, parking, use of family room, television, kitchen, \$200 a month inclusive or \$50 a week for July and August, \$280 a month in the fall, 763-7595.

FOR RENT

Office/studio space on Woolwich Street to share, parking, shared bathroom, kitchenette and entrance lobby, available immediately, \$240 a month inclusive, non-smokers, Fiona, 821-5354.

FOR SALE

1990 Mazda MPV, V6, automatic, dual air and heat, 140,000 kilometres, no rust, good condition, Marta, Ext. 4758 or 824-4342.

1989 Plymouth Reliant LE, four-door, excellent condition, 116,000 kilometres, 766-1464 after 5 p.m.

Sandpiper trailer, 35-foot tip-out, sleeps four, fridge, freezer, air, television, stereo, 24-foot awning, bath/shower, Sauble Beach, Grant, Ext. 4888 or send e-mail to grant@ehs.uoguelph.ca.

Farm near Rockwood with 53.5 acres of land, including seven acres of bush, 15 minutes to Guelph, 1,350-square-foot house surrounded by maple trees, bank barn, insulated workshop with concrete floor, grainery and pond, 856-9719 after 8 p.m.

Century house, downtown, 1,300 square feet, renovated, unique terraced gardens and hidden yard, 763-4425.

FOR SALE

Golf clubs, 11-piece woman's Northwestern, Lori, Ext. 4139.

Two room dividers, beige; 1930s dining-room suite, walnut veneer, inlays; 1985 Olds Cutlass Sierra; dress and bureau with mirror, Ext. 3044 or 821-1879.

Transportation Services has the following uncertified vehicle for surplus sale on a closed-bid basis: Vehicle #86C — 1986 Chevrolet S-10 pickup truck, four-cylinder engine, four-speed manual transmission, 72,500 kilometres. Submit bids to Paul Cook, Transportation Services, Vehicle Services Building, Ext. 2473, by July 20 at 4:30 p.m.

WANTED

Elderly woman in Water Street area requires assistance with meal preparation and personal care on weekends, Elsie, 824-4171 or fax 824-9600.

Used rowboat, 837-1742.

Person to share large stone house on one acre in downtown Guelph, laundry, parking, storage, large kitchen and living areas, non-smokers, no dogs, available Sept. 1, \$400 a month plus utilities, Meg, Ext. 4786 or 822-2430.

WANTED

Three-bedroom house for September, Julia, 416-449-2763 or send e-mail to jrowan@uoguelph.ca.

Caregiver for weekdays in August for six-year-old boy in our home, requires two or three overnight stays and some meal preparation, excellent swimmer, references, Bruce, Ext. 6142.

AVAILABLE

Private tutoring to students in English, women's studies or international studies by English professor, guidance in essay writing and course readings, reasonable, Ext. 8974.

Professional and grad student to houseit from beginning of January to end of December 1998, close to university, laundry, leave message at 905-799-9666.

Four-year-old male Australian shepherd needs a good home, intelligent, faithful, protective, good with older children, needs freedom to roam, 823-9751.

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Open Learning helps train entrepreneurs

A group of entrepreneurs in the specialty food market have increased their odds of succeeding, thanks to a small-business development program that featured training from U of G's Office of Open Learning.

The Specialty Food-Sector Small-Business Development Program, a Toronto-area program that helps unemployed people start their own food businesses, was responsible for launching about 50 new products, including organic preserves, gourmet dog biscuits and flavored garlic pastes.

"The program is a good predictor of future success in the specialty food sector," says Sandra Pitts, food science program development co-ordinator for Durham College and the U of G Food Industry Education and Training Consortium with the Office of Open Learning. "The participants learn the skills they need to launch viable products."

U of G and Durham College provided training in technical issues, product development, regulatory and labelling issues and quality control in collaboration with the Community Business Resource Centre in Toronto and the York Business Opportunities Centre.

Other organizations involved in the development and delivery of course materials were the Packag-

ing Association of Canada and the health departments of Toronto and York.

Each participant received three months of intensive self-employment business-skills training with a focus on food production, resulting in the creation of a comprehensive business plan. They also received ongoing business counselling for nine months during the start-up phase of their businesses.

Participants representing 16 new companies participated in the first session of the program; a graduation and trade show was held at York City Hall May 23

with Toronto Mayor Barbara Hall and York Mayor Frances Nunziata in attendance.

Two more programs will be held during the next 12 months. The goal is to help 100 participants acquire small-business management skills and start a successful business. It's estimated that about 85 per cent of the companies will survive their crucial first years.

Financial support was provided by Human Resources Development Canada, Redpath Sugars, Carole's Cheesecake, Lounsbury Foods, the Royal Bank and the cities of Toronto and York. □



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5:30 to 7:30 dinner

7:15 to 7:45 awards presentations:

the community service award

& the csa teaching excellence award

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live entertainment

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7:45 dayne manning • 9:00 big rude jake



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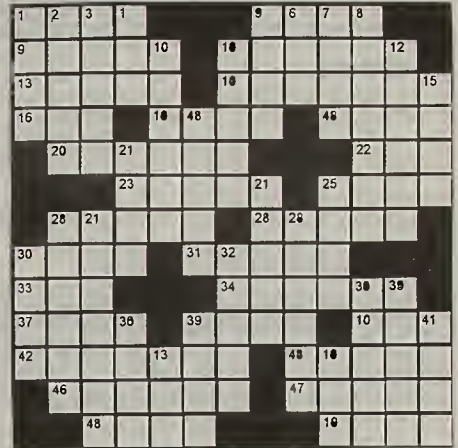
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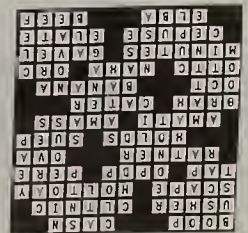


ACROSS

1. Betty of the cartoons
5. Ready money
9. Theater worker
11. Class of medical instruction
13. Frighten
14. Vacation
16. Road surface
17. Let fall
19. Mere's mate
20. Preferably
22. Eggs
23. Cargo spaces in ships
25. Litigant
26. Violin maker
28. Accumulate
30. Grain husk
31. Provide meals for
33. Autumn mo.
34. Curved fruit
37. Of the ear
39. Supernatural power
40. Killer whale
42. Hour parts
44. Auctioneer's hammer
46. White lead
47. Make happy
48. Napoleon's island of exile
49. Complaint

DOWN

1. Go bankrupt
2. Gold statuette
3. Actress
4. For every
5. Hoofbeat
6. Be sick
7. Cut with scissors
8. Repulsive
10. Sizzling
11. Harmonizing tones
12. Sculptures
15. Twelve months
18. Souvenir
21. Comparative conjunction
24. Old Nick
25. Poet Teasdale
26. In the tundra
27. Afternoon performance
29. Household
30. Period of prosperity
32. Humiliate
35. New stars
36. Mountain ridge
38. Play in a bonspiel
39. Flat-topped hill
41. Staff symbol
43. Clumsy slow boat
45. Clerical vestment



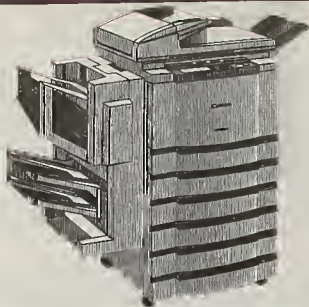
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AT GUELPH

41st
Year

Volume 41 No. 16

University of Guelph, Guelph, Ontario

July 23, 1997

AT A GLANCE

Putting us on the map.

For anyone who ever gets lost on campus, help is on the way. U of G is installing new signage around campus that will prominently display maps of the University. Seventeen of the black and white signs, emblazoned with the University of Guelph logo, are going up around campus; the maps will be in place by September.

See you in September!

This is the final issue of *At Guelph* for the spring semester. The first issue of the fall semester will appear Sept. 10. Copy deadline is Sept. 3. Have a great summer, everyone!

CIC names new chair.
Prof. Bryan Henry heads up the Chemical Institute of Canada for 1997/98
... page 3

A promising test. A team of researchers has developed a novel diagnostic blood test designed to detect ovarian cancer at an early, treatable stage ... page 5

Making the switch. Eastern Ontario farmers could profit from growing switchgrass as a substitute fibre for the pulp and paper industry ... page 5

The music plays on. The Hillside Music Festival turns 15 this year, thanks to the help of hundreds of volunteers ... page 8



Barbecue gets things cookin'

The Central Student Association (CSA) held its 24th annual community barbecue under sunny skies July 10, bringing a crowd out for food, games, music and fun. At left, Nancy Sullivan, vice-president (finance and administration), gets the scoop on dessert as she dishes up ice cream cones. At bottom left, students Mary Bargh, left, and Sunita Sarkar don't let sleeping dogs lie; they serve them up on a bun. Below, sidewalk art draws out the talents of Danielle and Sarah Ouellette. During the barbecue, the CSA named the winner of its 1997 Community Service Award — U of G graduate Jennifer Story.

Photos - Martin Schwalbe



HAF A professor takes over the helm at TSS

by Barbara Chance

Prof. Julia Christensen Hughes, HAF A, is the new director of Teaching Support Services (TSS). She began a three-year term July 1, succeeding Prof. Ron Stoltz,

Landscape Architecture, who had served as director and co-director since 1994.

A 1981 graduate of HAF A, Christensen Hughes worked in restaurant management for several years before heading off to York University to earn her MBA and eventually a PhD in organizational behavior. She joined Guelph's faculty in 1987.

A strong advocate of student-centred learning and experiential learning, she has co-chaired and chaired the FACS Learning and Teaching Committee since it was launched in 1994 to foster a culture that promotes learning and teaching in the college. Included in the committee's mandate is the

FACS teaching awards program, which has undergone a fundamental change from a faculty-driven to student-driven process during Christensen Hughes' tenure.

"We really need to listen to students and their experiences to help identify what changes are needed to enhance the quality of their education," she says.

She herself received the FACS Graduate Teaching Excellence Award in 1994/95. "I've always enjoyed teaching," she says. "It's a very important aspect of what I do."

Last semester, Christensen Hughes served as instructional development co-ordinator in

TSS, co-ordinating the "New Faculty" orientation programs and leading the course "University Teaching Theory and Practice" for graduate teaching assistants. In that year-long course, about 70 graduate students from across campus discussed such topics as the qualities of an effective teacher, differences in students' learning styles, ethical issues in the classroom and how to design a course.

She believes it's important to "recognize the significant role sessionals and graduate students play in the teaching process and

See TSS on page 4



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PEOPLE

President **Mordechai Rozanski** has been appointed to the executive committee of the Council of Ontario Universities (COU) for a two-year term that began July 1. He is also chair of COU's Task Force on Innovation.

Prof. **Doug Larson**, Botany, has been inducted into the McMaster University Alumni Gallery in recognition of his many achievements in linking research, teaching and public education in his work on terrestrial ecology and, in particular, his contribution to the understanding of the Niagara Escarpment.

Professor emeritus **John Oglvie**, School of Engineering, presented one of four keynote talks at the opening of the Fifth International Livestock Environment Symposium held in Minneapolis this spring. He spoke on "Environmental Systems: Design and Performance Standards."

Prof. **Lynn McDonald**, Sociology and Anthropology, gave a colloquium on "Nightingale-Martineau Collaboration" at the founding seminar of the Harriet Martineau Society on Mackinac Island. □

APPOINTMENTS

Prof. **Jim Shute's** appointment as director of the Centre for International Programs has been renewed for a final term that began June 1.

Prof. **Alun Joseph** has been re-appointed chair of the Department of Geography for a second five-year term that began July 1. Prof. **Robin Davidson-Arnott** will serve as acting chair until June 30, 1998, while Joseph is on administrative leave.

Prof. **Mark Sears** has been named chair of the Department of Environmental Biology for a five-year term that began April 1.

Prof. **John Walsh** was appointed acting director of the School of Hotel and Food Administration May 1.

Prof. **Alan Sullivan's** appointment as acting chair of the Department of Horticultural Science has been extended from Aug. 31 to May 31, 1998.

The appointment of Prof. **Truman Phillips** as acting chair of the Department of Agricultural Economics and Business has been extended to Aug. 31, 1997.

Gary Parkin has been appointed

assistant professor in the Department of Land Resource Science.

James Dickey has joined the Department of Human Biology and Nutritional Sciences as an assistant professor.

William O'Grady joined the Department of Sociology and Anthropology as an assistant professor July 1.

Stefan Kremer joined the Department of Computing and Information Science as an assistant professor July 1.

Stéphanie Nutting has been appointed assistant professor in the Department of French Studies effective Aug. 1.

Dorothy Odarte-Wellington will join the Department of Languages and Literatures as an assistant professor Aug. 1.

Stephen Schofield has been named assistant professor in the Department of Fine Art effective Aug. 1.

Jean Maddison will join the Department of Fine Art as an assistant professor Aug. 1. □

Obituaries

Ib Nonnecke

Retired professor **Ib Nonnecke**, a former faculty member and chair of the Department of Horticultural Science, died July 13 in Guelph. He was 74.

Born in Denmark, Prof. Nonnecke grew up in Western Canada and graduated from the University of Alberta and Oregon University. Before coming to Guelph, he headed the horticulture department at the federal research station in Lethbridge, Alta., was a manager of Asgrow Seed Company in Gonzales, Calif., and was president of Asgrow Seed Company in Brooks, Alta.

Prof. Nonnecke joined U of G in 1968 and served as department chair from 1974 to 1985. He retired in 1988. Throughout his career, he made major contributions to Ontario and Canadian horticulture in the areas of extension, education, administration and research. In 1995, he was named a fellow of the Agricultural Institute of Canada.

Prof. Nonnecke is survived by his wife of 52 years, Alice; three children, Karen, Blair and Brian; and two grandchildren. A tree will be planted in his memory Sept. 21 at 2:30 p.m. in the Wall-Custance Memorial Forest at the Arboretum.

Edith Kidd

Edith Kidd, U of G's first concert manager and founder of the Thursday noon-hour concert series, died in Guelph July 5. She was 85. Fixtures on campus for many years, Edith Kidd and her husband, Ralph, who became the first chair of the Department of Music in 1965, were originally attached to the office of Padre Ron William Young. They provided organ and piano music for convocations, church services, alumni reunions, banquets and retirement parties.

Edith Kidd became concert manager in 1967 and launched the free noon-hour concerts in January 1968. She was also one of the founders of the Guelph Spring Festival and its first box office manager. She retired from

the University in 1975.

She is survived by her husband, her son, David, and two grandchildren.

Ernie Brydges

Ernie Brydges, a former custodian at U of G, died July 15 in Guelph at the age of 83. He is survived by his wife, Alice; two children, Ernie Jr. of Elora and Marylyn Birch of Honey Harbour; five grandchildren and four great-grandchildren. A tree will be planted in his memory Sept. 21 at 2:30 p.m. in the Wall-Custance Memorial Forest.

Monie Moritz

Monie Moritz, a former library aid at the University, died June 20 in Guelph at the age of 89. She is survived by her son, Richard, and daughter, Wendy Struthers, of Toronto and two grandchildren. A tree will be planted in her memory Sept. 21 at 2:30 p.m. in the Wall-Custance Memorial Forest. □

LETTERS

Sessional instructor seeks solutions

I wish to respond to Prof. Diana Brydon's letter in the June 4 issue of *At Guelph*. I had no desire to speak on anyone's behalf when I wrote to the newspaper about conditions for sessional lecturers, nor to pre-empt any recommendations that any committee seeking employment equity might wish to make. Nor did I wish to imply that the Department of English treats its sessional workers worse than anyone else does.

I have worked in a number of

departments on campus and have always enjoyed these teaching opportunities, but I think many people recognize that sessional faculty are often doomed to continue in short-term contracts without any hope of promotion, better pay or any job security. The contracts mentioned by Diana Brydon guarantee only one course per calendar year, hardly enough to buy a week's groceries at Dominion's no frills. Furthermore, sessional faculty do not benefit from the subsidies enjoyed by tenured faculty for things like membership in the Athletics Centre, not to mention other perks.

In addition, although full-time

faculty may be rewarded with interesting and culturally rewarding activities like a semester abroad and are eligible for administrative positions that may occur on campus, sessional faculty are not eligible for such positions in return for years of service because they do not have a permanent workload (officially) to bargain for course releases.

I continue to write on these issues in the hope that others on campus will be inspired to find better solutions than any that may occur to the Department of English alone.

It seems to me that no one should continue to work for a university as a full-time teacher and researcher without any hope of improved conditions or even continuance.

Sessional faculty should be taken up in some kind of tenure-and-promotion system so that their talents and efforts are rewarded like those of other faculty and so that the University of Guelph can be seen to be putting its money where its mouth speaks: of human rights and employment equity.

CSA says thank you

The Central Student Association would like to thank the following sponsors for their contributions to the 1997 community barbecue: the Graduate Students' Association, Student Affairs, OPIRG, the Professional Staff Association, *At Guelph*, the University Centre and OAC.

A special thank you to everyone who volunteered at the barbecue. See you at the 25th-anniversary barbecue next year.

Mitch MacDonald
Central Student Association

No mention of Nobel

I am surely not alone in spotting the omitted mention of **Elie Wiesel's Nobel Prize** during the June 3 convocation ceremony at which he was awarded an honorary degree. It's not exactly a common occurrence for a "Nobel" to visit this place.

Prof. David Piggins
Psychology

Cherry Clayton
Department of English

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Tops in teaching. Nine faculty members involved with the human kinetics specialization in the Department of Human Biology and Nutritional Sciences are this year's winners of the College of Biological Science Award for Excellence in Teaching. Above, CBS dean Robert Sheath, third from left, presents a plaque to seven of the recipients. From left are Profs. Brian Wilson, Francine Pilon, Michael Lindinger, John Brooke, Susan Pfeiffer, Jim Potvin and Jack Barclay. Missing from photo are Profs. Terry Graham and Lawrence Spriet.

Photo - Martin Schwalbe

Physicist has right elements for teaching

Prof. Ernie McFarland, Physics, has once again earned top marks for his teaching — this time from the Canadian Association of Physicists (CAP). He received CAP's 1997 Medal for Excellence in Teaching at the association's annual meeting last month in Calgary.

A faculty member at Guelph since 1974, McFarland also holds a 3M Teaching Fellowship, a teaching award from the Ontario Confederation of University Faculty Associations and a special merit award from the U of G Faculty Association.

The CAP medal cites McFarland for his skills in undergraduate teaching and his dedication to the improvement of teaching and learning throughout the University, to the physics education community and to the general public.

He has been responsible for developing many courses, demonstrations and experiments, and contributed to the development of a modular personalized system of instruction course for biophysics students. He was also instrumental in developing and teaching the MPC² interdisciplinary courses aimed at scholarship-level students in physical science.

Beyond U of G, McFarland has been active in the American As-



Prof. Ernie McFarland

sociation of Physics Teachers, was responsible for founding the Ontario Association of Physics Teachers (OAPT) and served as its first president. In 1986, he was awarded honorary life membership in the OAPT.

He is author of *Special Relativity — An Introduction*, which is being published in its third edition this summer in Toronto and is used throughout Ontario high schools. He is also co-author of the textbooks *Physics for Tomorrow's World and Energy, Physics and the Environment*.

McFarland has acted as an educational consultant for TVOntario's *Eureka!* series and for the provincial government in devel-

oping curriculum and reviewing examinations for high school physics courses. He was also instrumental in organizing a science program for children in the Guelph area in co-operation with the Ontario Science Centre.

At the heart of it all is McFarland's love of teaching and his enthusiasm and respect for the many students who have passed his way.

Even after 23 years, "I still find a lot of excitement and enjoyment in teaching physics," he says. "For me, the most satisfying experience is to assist a student one on one in my office until the student's face shows that the 'light has gone on' — he or she has come to understand the physics in a particular situation. I also enjoy having students think actively in lectures by having them predict the outcomes of demonstrations, work on concept questions and so on."

He also finds it rewarding to run into students he's taught over the years. "Because I have taught several large-enrollment first-year courses, I never know where former students will appear. In recent years, they've come up to me in locations as far apart as Florida and British Columbia." □

Lipids research earns kudos

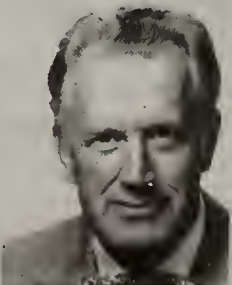
Professor emeritus John deMan, first chair of the Department of Food Science, has won the Institute of Food Technology's (IFT) 1997 Stephen S. Chang Award for Lipid or Flavor Science.

DeMan was honored for lipids research that contributed to the successful development of margarines and shortenings made from canola oil in North America. His studies on the crystallizing behavior of hydrogenated canola oil helped improve the physical properties of these products. He also developed methods of analysing, identifying and removing sulphur compounds in canola oil

to allow for better hydrogenation.

DeMan's research on the structure and form of fat crystals led to the development of new test methods of fat properties. He has also focused on such areas as the physical properties and fractionation of milk fat, lipid oxidation, characterization of fat crystals by electron microscopy and X-ray diffraction analysis.

A faculty member at Guelph from 1968 until his retirement in 1990, deMan was named a fellow of the IFT in 1995. He is also a fellow of the Institute of Food Science and Technology in the United Kingdom and the Cana-



Professor emeritus John deMan

dian Institute of Food Science and Technology and holds a lifetime achievement award from the Canadian section of the American Oil Chemists' Society. □

Henry named 1997/98 chair of Chemical Institute of Canada

by Margaret Boyd

As the new chair of the Chemical Institute of Canada (CIC), Prof. Bryan Henry, chair of the Department of Chemistry and Biochemistry, hopes to attract a higher profile for U of G and increase scientific interest on a national scale.

"Traditionally in Canada, we haven't done much to promote science," says Henry, whose one-year term with the 6,000-member institute runs until next July. "All too often in our country, the heroes or role models are not scientists. I think we can do a lot more to encourage our young people to be interested in science."

There is also a need in Canada for reasoned and educated debate on controversial issues such as the environment and risk assessment, he says. "Too often, risks are viewed in terms of black and white. We have to have informed and vigorous discussion on scientific issues."

As CIC chair, Henry will oversee three constituent societies. The CIC was founded in 1945 with members drawn from chemists and chemical engineers, who were joined by chemical technologists in 1973. In 1985, three constituent societies were formed: The Canadian Society for Chemistry (CSC), the Canadian



Prof. Bryan Henry

Society for Chemical Engineering and the Canadian Society for Chemical Technology.

The CIC maintains a national head office that serves all three societies, publishes *Canadian Chemical News* and co-ordinates financial affairs. As chair, Henry interacts with other national societies, sits on award committees and represents various organizations such as the Canadian section of the Society of Chemical Industry and the International Union of Pure and Applied Chemistry.

Henry notes that chemistry is the fourth largest sector of Canada's economy, bringing about \$40 billion in sales of products ranging from pharmaceuticals to petrochemicals. He believes it's therefore fitting that one of the CIC's roles is to alert the government to the benefits of research funding. The CIC lobbied in favor of the federal government's new Canada Foundation for Innovation (CFI), which is an investment in Canada's future in terms of technology development and trained people, says Henry.

A native of Vancouver and a graduate of UBC and Florida State, he brings a wealth of credentials to his new role. He served on the research and development task force of the Canadian Chemical Producers Association, is past president of the CSC and is past chair of the board of directors of environmental science of the Environmental Science and Technology Alliance Canada. The alliance is an industry-based organization that funds collaborative research between universities and industry with government assistance in the areas of chemistry and the environment. He received the 1992 Gerhard Herzberg Award of the Spectroscopy Society of Canada and was a principal investigator in the federal centre of excellence for molecular and interfacial dynamics.

Henry, whose duties as chair of the CIC coincide with a sabbatical research leave, will also chair a campus steering committee to develop a multi-million-dollar analytical science proposal for a CFI competition.

"Our hope is to bring a centre for analytical sciences here to build on the strength of the university and the resources from the laboratory services division of the Ontario Ministry of Agriculture, Food and Rural Affairs," he says. □



Prof. Larry Peterson

Helsinki honors botanist

Prof. Larry Peterson, chair of the Department of Botany, recently received the University of Helsinki Medal in recognition of his many research contributions in the field of root biology and symbiotic associations between roots and mycorrhizal fungi.

He was invited by the rector of the University of Helsinki to participate in teaching a graduate course on laser scanning confocal microscopy in the department of biosciences.

Peterson, who is a fellow of the Royal Society of Canada, has published 180 research and many book chapters and co-authored the recent book *Practical Methods in Mycorrhiza Research* with research technician Lewis Melville and former graduate student Mark Brundrett. □



TSS director Prof. Julia Christensen Hughes settles into her new office on the main floor of Day Hall.

Photo - Martin Schwalbe

TSS has 'pivotal role' in learner-centredness

Continued from page 1

ensure that they don't slip through the cracks in terms of training and development and feeling part of the 'learning community.'"

Christensen Hughes is also director of HAPA's Hospitality Managers' Development Course, which brings dozens of hospitality managers to campus for a week each year to help develop their leadership, people management and financial analysis skills. She attributes her strong commitment to experiential learning to her involvement with executive education over the past 10 years. It's an approach that she believes has transferred well to her graduate and undergraduate courses.

In her new role as director of

TSS, Christensen Hughes is eager to meet the challenges that lie ahead. "This is a critical time for the University because it is facing so many external pressures such as severe budgetary constraints," she says. "But it's an exciting time for change in the learning process. And TSS has an absolutely pivotal role to play in helping the University continue to develop its learner-centredness and achieve its learning outcomes. I want TSS to continue on its path — well established by Ron Stoltz — helping faculty as they confront very real challenges such as larger class sizes and heavier teaching loads and as they explore new ways of teaching. I look forward to the challenge of the job, and I look forward to working with the excellent team in TSS."

Stoltz says the feeling is mutual. "We're delighted that she has accepted the challenge," he says. "She epitomizes what the University's strategic plan calls for in the area of learner-centredness. Plus she has a PhD in organizational behavior. What better combination for the job than good teaching and an understanding of organizational behavior? I'm very confident that she will continue to make TSS an integral part of the teaching and learning environment on this campus."

Reflecting on his own time with TSS, Stoltz says he's proud of the work the unit has done with new faculty, the blossoming of learning technologies as support in the classroom, the reorganization of TSS and the development of a peer consultation program.

"This has been an incredible experience because I've been in touch with a lot of good faculty," he says. "Teaching and the teaching enterprise have been undervalued across the university system, but U of G has made great strides in this area. It's very heartening. People who believe in the scholarship of teaching are being advanced; it gives me hope." □

A FRESH NEW VISION FOR GUELPH

What do you think?

From Dreams to Realities: 1997 to 2020



During recent months, Councilors and Senior Staff looked at the future of Guelph and developed a "Vision" to highlight important directions for the future. The Vision Working Document "From Dreams to Realities" emphasizes in broad terms a "picture" of Guelph in the year 2020. It describes the physical, cultural, social, and economic components of our Community, and establishes a direction which will make us all think beyond today — to step beyond what is typical and to strive for what is possible.

As we look around our city today, in 2020, we see a community that is vibrant, flourishing and comfortable. Over the past quarter century, we've made some powerful breakthroughs in our thinking and initiatives, some that were quite innovative and very motivating. We are excited that we have achieved much more than ever envisioned back at the turn of the century. Today, we can say with pride that we are a community that dared to step beyond what was typical to strive for what was possible.

A great place to call home. Through careful planning and effective community input, we have been able to develop as a cosmopolitan centre while maintaining the small town character that has always been a hallmark of Guelph. Our active neighbourhoods continue to foster the close-knit nature and comfortable atmosphere of the city, even as we have grown in size and complexity. Civic pride, spirit and volunteerism are cornerstones of our success and the main motivator for an active and involved community.

We are known as a clean, safe, caring, friendly community with outstanding facilities and services in health care, education, leisure and culture. The multipurpose leisure/learning/health/seniors centres that we initiated twenty years ago are the envy of many communities today. We have been able to maintain and attract residents to work, live and share in the community due to our expanding and diversified employment base.

A vibrant downtown: "Royal Commons." Our pedestrian core, which we call the "Royal Commons", has attracted a great deal of attention. With its mix of limestone and modern architecture, it is recognized as one of the most important elements that defines our city and its character, reflecting our historic past and progressive future.

The area has become 'everyone's place' — the 'common ground' that binds the various parts of the city together and unifies all of our communities. The "Royal Commons" is an exciting place — always alive! It offers a wide range of shopping, entertainment, cultural expression, restaurants and cafes, a new Government Centre, a bustling outdoor market, a new hotel and convention centre and is home to many of our residents.

"Royal Commons" is a pleasant place, green with many trees and plants, parks, a number of roof top gardens, the popular Royal City Garden, and walkways that meander along the rivers. Over the years, we reshaped the eastern part of downtown to create an exciting and extremely appealing 'front porch' to the river, comprising shops, cafes, a boardwalk, and parks that attract residents and visitors year round.

An appealing, attractive city. Guelph is widely known for its beautifully preserved heritage architecture, distinctive neighbourhoods and eye-catching vistas. Ecologically sound and protected natural areas and sanctuaries, including the Arboretum, are situated throughout the city and surrounding countryside. Our 'city of rivers and unique bridges' boasts scenic meandering walkways and bicycle trails, and picturesque rivers and streams flowing from beautiful Guelph Lake Nature Reserve and Park. Driven by civic pride and public commitment, Guelph has won the 'Communities in Bloom'

competition more often than any other city. The overall appeal of Guelph, coupled with our small town character, has contributed to the city's ability to hold onto established business and attract many new industries and head offices to our well-sited and landscaped industrial/office parks. For these reasons and the fact that we have excellent health care and education services, the city has become a magnet for people searching for a secure and comfortable, yet exciting community. Visitors and residents alike say the city is alive with an ever changing menu of inviting activities.

Our recently completed state-of-the-art municipal air park is linked to the city and the regional transportation system, including the Waterloo Regional airport. We have expanded our city transit system and now host the Hanton Shuttle. With the pedestrian core, "Royal Commons", closed to vehicular traffic, Guelph has become less dependent on the automobile.

We continue to attract international attention as an innovative community and world leader in environmental management which helps us to focus on building a sustainable City.

A flourishing, diversified economy. Located in the heart of Canada's Technology Triangle, we are a regional centre serving the needs of a number of world class industries, many of which were founded in Guelph. This has diversified our employment base and greatly increased employment opportunities. We are particularly proud of growth in the agri-food, food science, environmental and biotechnology sectors. The University of Guelph research park, "The Centre of Excellence", has attracted major agri-food systems technology companies and is world renowned for its research and development achievements.

In co-operation with public and commercial partners in the area we have been very successful in expanding our tourism industry and in marketing Guelph to the world. We now host over three dozen festivals and special events every year and have become home to international sports competitions, as well as major art, music, drama and agricultural festivals. The attractiveness of the city and the events that we host has resulted in Guelph becoming a popular year-round destination community.



These Vision Statements are intended to highlight our desired future:

A great place to call home
A vibrant downtown: "Royal Commons"
An appealing, attractive city
A flourishing, diversified economy

Please answer the following questions:

- Do the visions describe the "special things" in Guelph?
 A great place to call home ☐ YES ☐ NO
 A vibrant downtown: "Royal Commons" ☐ YES ☐ NO
 An appealing, attractive city ☐ YES ☐ NO
 A flourishing, diversified economy ☐ YES ☐ NO

- Overall, do the statements accurately reflect your excitement and pride in Guelph? ☐ YES ☐ NO

- Are there other characteristics of our Community which should be added or deleted?

ADD:

REMOVE:

- Other/Suggestions:

Please provide your comments via:

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Research associate Douglas Gaudette, left, and Prof. Bruce Holub are part of a team that has developed a promising blood test to detect early ovarian cancer.
Photo - Victor Wong

Blood test targets ovarian cancer

by Susan Connelly
Office of Research

A novel diagnostic blood test designed to detect ovarian cancer at an early, treatable stage has been developed by a research team that includes U of G scientists.

The test stems from the team's identification of abnormal features in the bloodstream of women with ovarian cancer, the fourth leading cause of death from malignancy in women. The test is intended to offer earlier detection, a crucial factor given that, currently, 70 per cent of women have reached advanced stages of the disease at the time of diagnosis.

Now that the test is developed, the next step will be to further evaluate its validity using a larger sample of both healthy women and women with ovarian cancer.

"Diagnosis of ovarian cancer at an early, treatable stage could bring about higher survival rates," says Douglas Gaudette, a senior research associate in the Department of Human Biology and Nutritional Sciences. He developed the test with colleague Prof. Bruce Holub, nutritional scientist Misako Okita of Okayama Prefectural University in Japan and Gordon Mills of the

M.D. Anderson Cancer Centre at the University of Texas. Their findings were recently published in the *International Journal of Cancer*.

A key factor in the diagnostic test is lysophosphatidylcholine (lysoPC), a normal component of human blood. Blood samples were collected from women with the disease as well as from a control group of healthy women. When the samples were examined, the researchers discovered a significantly higher level of lysoPC in the bloodstream of ovarian cancer patients compared with healthy subjects. The team also found that women with ovarian cancer exhibited an abnormal pattern of fatty acids, which are part of the lysoPC structure.

The team wanted to know if this heightened lysoPC level was unique to ovarian cancer, so they tested a group of people with leukemia. These blood samples didn't show elevated lysoPC lev-

els, suggesting this phenomenon isn't common to all cancer types.

"This finding is a promising start," says Gaudette. "The next step is to investigate the mechanisms responsible for elevated lysoPC and abnormal fatty acid composition in the bloodstream of women who have ovarian cancer, as well as determine its relationship to cancer."

Patenting of this blood test as a detection tool for ovarian cancer is already under way.

"The development of diagnostic markers as tools for early detection of ovarian cancer and other cancer types could expedite the introduction of intervention strategies at an earlier stage, which may be helpful in preventing progression of the malignancy," says Holub.

This research was supported by the National Cancer Institute of Canada, the Genesis Foundation and the Medical Research Council of Canada. □

This pulp isn't fiction

by Christina Clark
Office of Research

Switching to switchgrass may be a smart move for farmers in eastern Ontario, according to new studies from U of G.

Prof. Glenn Fox, Agricultural Economics and Business, says there's profit to be made by growing switchgrass — a durable, high-yielding grass — as a substitute fibre for hardwood in the pulp and paper industry.

Agronomic studies have shown that switchgrass yields well on land that's not well suited to growing conventional row crops such as corn. On some eastern Ontario farms, for example, Fox estimates that farmers could turn their land around and make a net return as high as \$250 per hectare of switchgrass produced.

"There aren't many financially viable alternatives to conventional field crops," he says. "We've looked at a lot and haven't found many. To see this one is very encouraging."

The idea surfaced when a Quebec-based organization called Resource Efficient Agricultural Production (REAP) considered switchgrass as a feedstock for thermal electricity production. Ultimately, it found that in today's market, biomass energy systems weren't financially competitive with traditional energy sources such as fossil fuels. But given switchgrass's durability, REAP thought it had promise as a sustainable and renewable resource in agriculture.

The director of the plants program under the U of G/Ontario Ministry of Food, Agriculture and Rural Affairs (OMAFRA) research agreement heard about this new plant-based agricultural system and asked Fox to look into it. Fox conducted a market potential study with the help of graduate research assistant Yusman

Syaukat and REAP's staff economist, Patrick Girouard . . . and they liked what they saw.

"We looked at the profitability of switchgrass production from the farmer's point of view," says Fox. "A perennial crop like switchgrass needs planting only once and renews itself every year. A switchgrass plantation may thrive for up to 25 years, making this a very attractive feature to farmers."

Paper mills are interested in using switchgrass as an alternative to hardwood in their pulp recipes. Their interest stems from concerns about the supply, access and transport costs of hardwood fibre.

Right now, hardwood fibre makes up 80 per cent of the pulp in the Ontario milling industry, with softwood accounting for the remaining 20 per cent. The Pulp and Paper Research Institute of Canada conducted trials using a recipe of 20-per-cent softwood, 64-per-cent hardwood and 16-per-cent switchgrass pulp. They found that the pulping yields using their switchgrass recipe were better than expected. Not only that, they were impressed with the quality of the paper.

"Pulping results in the lab have been encouraging," says Krishan Goel, analytical science manager at Domtar, a pulp and paper company also based in Quebec. "The use of switchgrass is no longer a question of viability."

For the paper mills, using switchgrass could be less expensive and more environmentally friendly than using hardwood, which takes years to renew.

"The use of switchgrass as a fibre for paper making isn't so far-fetched when you think of the ancient Egyptians," says Fox. "They used marsh grass to make their paper."

This research was sponsored by OMAFRA. □

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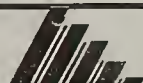
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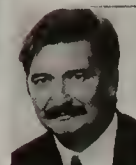
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NOTICES

Food microbiology

The Department of Food Science will hold a research symposium in food microbiology Sept. 18 at the Guelph Food Technology Centre (GFTC). Topics include biofilms, novel pathogen detection methods, beneficial bacteria, pathogens in milk and meat, and risk perception and analysis. There is no cost to attend, but registration is requested by calling Ext. 6587 or sending e-mail to slavrin@uoguelph.ca by Aug. 22.

Plant sale

The Arboretum Auxiliary will hold its fifth annual plant sale Sept. 13 at the R.J. Hilton Centre. It runs from 9 a.m. to 3 p.m. rain or shine. The sale will include 400 varieties of native and exotic perennials, rock garden plants, alpine, native wildflowers, ferns and grasses, as well as 100 varieties of trees, shrubs and vines. A silent auction of more than 50 rare

and unusual specimens will run from 9 to 11 a.m. A catalogue will be available in August. For more information, call Ext. 2113.

Can you bear it?

Guelph Museums will hold its annual Teddy Bear Picnic Aug. 21 from 2 to 4 p.m. at McCrae House. Bring your teddy bear for an afternoon featuring games, races, crafts, prizes, toys, storytelling, first aid for your teddy and refreshments. Admission is \$1 at the door. Rain date is Aug. 22. For more information, call 836-1221.

Graduate seminars

The summer graduate seminar series in the Department of Human Biology and Nutritional Sciences continues Aug. 11 with Laurie Poirier discussing "The Effects of Ethanol Feeding on the Regulation of Glucose Transport" and Aug. 25 with Karen Iles examining "The Impact of Genetic and Nutritional Manipulation of

CuZnSOD on the Susceptibility of Chemically Induced Diabetes." The talks begin at 10 a.m. in Room 141 of the Animal Science and Nutrition Building.

Visiting speakers

The Department of Population Medicine's seminar series continues Aug. 12 with Liz Spangler of the University of Prince Edward Island exploring "Epidemiology in Fish Health" and Aug. 18 with Mo Salman of Colorado State University focusing on "Epidemiological Aspects of Pet Overpopulation." The talks begin at 3:30 p.m. in Room 1715 of the OVC Learning Centre.

CIP moves

The Centre for International Programs, formerly located on Level 4 of the University Centre, has moved to the second floor of Day Hall.

Cognitive study

A University of Saskatchewan standardization study of the cognitive test WAIS-III is looking for healthy Canadians of a variety of ages, educational levels and ethnic backgrounds to establish norms for reference. The Ontario dataset requires participation from older adults, especially those of British and French origin. Participation in the project takes three hours. If you're interested, send e-mail to Kathryn Douglas in the Counselling and Student Resource Centre at kdouglas@uoguelph.ca or call Ext. 2373.

Under the stars

The Arboretum presents "Strictly Stargazing," a seven-evening workshop with astronomer and author John Daicopoulos, Tuesdays and Thursdays from Aug. 5 to 26 at 8 p.m. The workshop is designed to help new astronomers find their way around the sky.

Cost is \$75. Registration deadline is July 25. For more details, call Ext. 4110.

On the right Rhodes

The internal deadline to apply for the Rhodes Scholarship program is Sept. 26. Applications must be submitted to the Senate Office on Level 4 of the University Centre. Application forms are available from Registrar Services on UC Level 3.

Upcoming concerts

University Centre Programming will present several events in Guelph's River Run Centre over the coming season. They include concerts by Mary Jane Lamond, Leahy, Susan Aglukark, Michael Burgess and John McDermott. Also scheduled is a performance of the comedy *Wingfield's Progress*. For more information, call Sam Baijal at Ext. 2896 or check out the Web site www.uoguelph.ca/ucevents. □

CLASSIFIEDS

FOR RENT

Furnished three-bedroom basement apartment, 20-minute walk to campus, parking, laundry, \$795 a month inclusive; bachelor apartment, 25-minute walk to campus, share swimming pool, \$435 a month, Ext. 4018 or 836-6862 after 6:30 p.m.

Two-bedroom penthouse apartment in stone house, quiet neighborhood near Exhibition Park, suitable for professional couple, \$950 a month, 824-1773.

Three-bedroom executive house, two baths, close to Church of Our Lady, \$1,400 a month, 846-8193.

One bedroom in three-bedroom home on Oxford Street, fireplace, deck, parking, \$300 a month plus utilities, 822-9851 after 6 p.m. or send e-mail to sbisscho@psylab.css.uoguelph.ca.

Three-bedroom stone house overlooking Arboretum, appliances included, \$1,100 a month plus utilities, annual lease, immediate

occupancy, 767-5003.

Three-bedroom home on quiet street, downtown location, parking, available Aug. 1, \$1,100 a month, one- or two-year lease available, 822-6680.

Furnished two-bedroom house, available Sept. 1 to April 30, 1998, non-smokers, \$900 a month inclusive, Ext. 3645 or 822-2460 evenings.

Four-bedroom estate on the Grand River in Paris, available Sept. 1 to May 31, \$1,250 a month plus utilities, Ron or Elizabeth, 519-442-1890 or send e-mail to hansen@edu.uwo.ca.

Two-bedroom luxury condo in Florida, south of Clearwater, available Aug. 23 to 30, two baths, full kitchen, sleeps six comfortably, \$800, 823-8548.

Furnished four-bedroom home suitable for visiting faculty or grad students, non-smokers, no pets, available mid-August to end of December, \$800 a month plus utilities, Peter, Ext. 8165, 837-

8461 or send e-mail to pkim@ana.mathstat.uoguelph.ca.

Furnished two-bedroom home on country estate near Rockwood, rent to be negotiated, tenants paid to do chores, must be willing to act as guardians and sitters when owner is away, available Sept. 1, reply to Box 242, Rockwood NOB 2K0.

Bachelor apartment in stone building on Woolwich Street, three-piece bath, freshly painted, available Aug. 15 or Sept. 1, non-smoker, \$495 a month inclusive, Fiona, 821-5354.

Furnished basement room for mature student, non-smoker, no pets, \$275 a month, 822-3129.

One-bedroom apartment, downtown location, available Aug. 1 to Dec. 31, \$435 a month, 821-6578.

Furnished office/studio space on Woolwich Street to share, parking, shared bathroom, kitchenette and entrance lobby, \$240 a month inclusive, non-smokers, Fiona, 821-5354.

Three rooms in quiet area, 10 minutes to campus, laundry, female tenants preferred, available Sept. 1, non-smokers, no pets, \$320 per room a month inclusive, leave message at 836-3892.

FOR SALE

Refrigerator, 1.7-cubic-foot, white, used one year, Marg, Ext.

6983 or 824-3800.

Full set of 1978 encyclopedias, six blackout curtains for photography, 846-8469.

1988 Toyota Land Cruiser, automatic, loaded, reliable, 763-4643.

Large coffee table, serving cart and rotor table, 821-6578.

Television and VCR stand, 47 by 43 by 16 inches; brown living-room chair, 822-1746.

Fleetwood trailer, 29 feet, new condition, appliances, sleeps six, separate rear bedroom, three-piece bath, deck, awning, '97 site fees paid, 821-2568 or send e-mail to ljones@uoguelph.ca.

Three-bedroom open-concept raised bungalow, 1 1/2 baths, skylights, large family room with fireplace and walkout to deck, double garage, 35-minute drive to Guelph, 848-3441 or send e-mail to mddennis@uoguelph.ca.

Three-bedroom townhouse, 1,350 square feet, ceramic and hardwood floors, three baths, finished basement with rec room, central air, walk to schools, parks and shopping, 822-6755.

WANTED

Dog lovers with vehicle and fenced yard but no dog, to take care of other people's dogs for short periods, Cobi, Ext. 6373, 836-8086 or send e-mail to cdemers@uoguelph.ca.

Two responsible non-smoking women to housesit in small house or apartment starting Sept. 1, willing to perform light housekeeping in exchange for reduced rent, parking required, references available, leave message for Angie or Sarah at 767-6703.

Mature grad student with beagle looking to rent small house, preferably in country, willing to do property maintenance or animal care, D.J., 905-451-8285 or send e-mail to dsproat@wwoonline.com.

Medium-sized fridge and stove by Aug. 15, white or cream color preferred, Fiona, 821-5354.

Elderly woman in Water Street area requires assistance with meal preparation and personal care on weekends, Elsie, 824-4171 or fax 824-9600.

Full-time child care in my home for two girls aged three and six, downtown location, driver's licence and references required, may suit a part-time student, 763-7430.

Person to share stone house in downtown Guelph, laundry, parking, storage, large kitchen and living areas, non-smokers, no dogs, available Sept. 1, \$400 a month plus utilities, Meg, Ext. 4786 or 822-2430.

AVAILABLE

Hall for weekend rental, Ext. 8117.

Four-year-old male cat to a good home, neutered, affectionate, white with black spots, owner has allergies, Lou Ann, Ext. 3956.

Mature woman willing to housesit and care for pets for fall or winter semester, 519-448-1756.

Housesitter, low rates, also live-in service, references; tutor specializing in elementary school math and high school French, English and history, 821-6578.



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Chinese delegation visits. Representatives of China's Zhejiang Agricultural University (ZAU) were on campus recently to sign an administrative agreement with U of G to implement a joint Canadian International Development Agency project on "Facilitating and Channelling the Reform Trends in Rural Industrialization and Urbanization in the Chinese Countryside." In front, from left, are ZAU vice-president Huang Zuhui and president Mordechai Rozanski. In back, from left, are College of Social Science dean David Knight, Chinese consuls Zhang Jianxin and Zhang Xueqin, PhD student Xu Wei and Prof. K.C. Tan of the Department of Geography and Wei Loubao of ZAU.

Photo - Martin Schwalbe

GRAD NEWS

The final examination of Corine Midgett, an M.Sc. candidate in the division of family relations and human development in the Department of Family Studies, is July 24 at 1:30 p.m. in the Couple and Family Therapy Centre. The thesis is "Late Adolescent Identity Development and Psychosocial Strength." The adviser is Prof. Bruce Ryan.

The final examination of Michele Meurer, an M.Sc. candidate in the division of family relations and human development in the Department of Family Studies, is July 28 at 10 a.m. in the Couple and Family Therapy Centre. The thesis is "Transcendent Journeys: Experiences of Interdenominational Couples." The adviser is Prof. Jean Turner.

The final examination of PhD candidate Emmenueel Yiridoe,

Agricultural Economics and Business, is Aug. 6 at 9 a.m. in Room 101 of the MacLachlan Building. The thesis is "Bioeconomics of Agricultural Non-Point Source Pollution Control: Nitrates in Southwestern Ontario." The adviser is Prof. Alfons Weersink.

The final examination of PhD candidate Nathalie Bruneau, Population Medicine, is Aug. 11 at 9 a.m. in Room 1715 of the OVC Learning Centre. The thesis is "Aspects of Uncertainty and Decision Making in Fish Disease Control Programs in Ontario, Canada." The adviser is Prof. Meg Thorburn.

The final examination of Lori Campbell, a PhD candidate in the division of family relations and human development in the Department of Family Studies, is Aug. 12 at 1 p.m. in the Couple

and Family Therapy Centre. Her thesis is "Sons Who Care: Exploring Men's Involvement in Filial Care." The adviser is Prof. Anne Martin Matthews.

The final examination of PhD candidate Gery Teare, Population Medicine, is Aug. 18 at 9 a.m. in Room 1715 of the OVC Learning Centre. The thesis is "A Prospective Study of Chemotherapeutic Use on Ontario Farms over One Production Cycle." The adviser is Prof. Meg Thorburn.

The final examination of Stuart Macdonald, a PhD candidate in the Department of History, is Aug. 25 at 2 p.m. in Room 132 of the MacKinnon Building. The thesis is "Threats to a Godly Society: The Witch Hunt in Fife, Scotland, 1560-1710." The adviser is Prof. Ronald Sunter. □

Library hours

The U of G Library will operate with a reduced schedule and with limited services during the between-semester period.

From Aug. 19 to Sept. 1, the McLaughlin Library will be open from 8:30 a.m. to 7 p.m. Monday to Friday and from noon to 7 p.m. on weekends and Labor Day. The veterinary science section will be open from 8:30 a.m. to 5 p.m. Monday to Friday and closed on weekends and Labor Day.

For reference service hours during this period, call Ext. 3617. □

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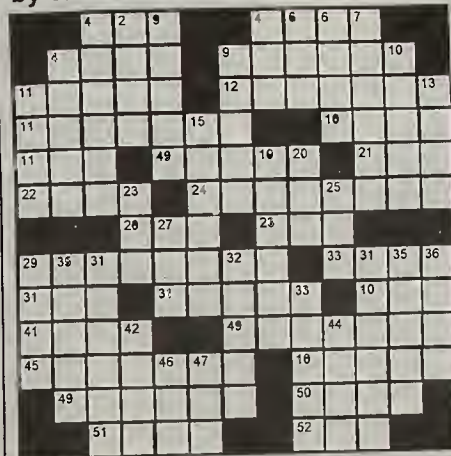
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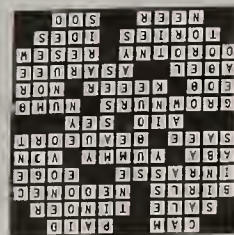


ACROSS

1. Wheel projection
4. Settled a debt
8. Auction
9. Touchwood
11. Spins a log
12. Of pleasure
14. Blind alley
16. Theater box
17. Arabian robe
18. Delicious
21. German name prefix
22. Sodium chloride
24. Wind scale
26. Give help to
28. Foxy
29. Adults
33. Deadened
37. Slow throw
39. Stinging ant
40. And not
41. Cain's brother
43. Usually
45. She wore red shoes
48. Stitch up again
49. Conservatives
50. March date
51. —do-well
52. Sward

DOWN

1. Pert. to the wrist
2. —breve
3. Untidy
4. Dessert
5. Moreover
6. Heathen deity
7. Once more
8. Disney's lion cub
9. Subject
10. Hardship
11. Partiality
13. Penny
15. Conquer
19. Billiard shots
20. Actor Brynner
23. Playing marble
25. Danish island
27. Squid secretion
29. Happy
30. Automaton
31. Fairy king
32. Amuses oneself
34. Brand-new
35. Breakwaters
36. Make tea
39. Notre Dame site
42. Knowledge
44. Make over
46. Dead heat
47. LBJ's beagle



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Sam Bajjal of UC Programming is one of the hundreds of volunteers who help the music play on at the Hillside Festival each year.

Photo - Martin Schwalbe

Hillside volunteers strike the right note

by Barbara Chance

More than 500 Hillside Festival volunteers are set to face the music this weekend. They're also set to sell tickets, co-ordinate parking, run the sound system, keep an eye on the garbage, look after the instruments and do the hundreds of other tasks needed to bring the 15th annual festival to life.

The festival, which runs July 25 to 27 rain or shine at Guelph Lake Island, couldn't exist without its volunteers, says Michael McLeod, Hillside's festival manager and only permanent staff member. Luckily, finding volunteers is not a problem. Several weeks ago, the festival had already signed up all the volunteers it needed, and anyone wanting to participate after that had to go on a waiting list.

Sam Bajjal, co-ordinator of publicity and promotion in University Centre Programming, has been a volunteer with the festival for the past four years as a member of the board of directors.

"It takes the efforts of many people with various kinds of connections and experience to make the festival work," he says. A self-described "major music buff," he puts his own years of connections and experience in the entertainment industry to good use as a member of the artistic selection committee.

It's a job Bajjal enjoys, but one that gets more and more difficult each year. That's because of the growing number of festivals competing for performers, particularly festivals backed by major corporate sponsors, he says.

"We have a really low artistic budget, one-third to one-tenth the size of most other festivals. Without major corporate sponsorship, it's hard. If we have a rainy weekend, we could be in big trouble."

But that doesn't mean Hillside is out looking for big sponsors, he says. In fact, the festival has prided itself over the years for its lack of multinational logos and mass-produced fast food and its commitment to recycling and the environment.

"We're one of the few festivals of our size that has for a number of years managed to pay for ourselves with no major funding and no major corporate spon-

sorship. We get calls from other festivals asking how we do it."

Instead, Hillside relies on tickets sales, fund-raising events, support from the city, the Ontario Arts Council and local businesses such as Sleeman's, and co-operation from the Grand River Conservation Authority to sustain itself from year to year, says Bajjal. Despite the shoestring budget, "we have enjoyed excellent attendance and we've been recognized in a major American music magazine as one of the top 25 festivals in the world."

Still, he believes the festival is at a crossroads this year in deciding what direction it must take to survive. "For an organization like Hillside, it almost has to reinvent itself unless people take note that it's not as easy as it used to be."

Each year, the festival strives to offer a wide diversity of entertainment for all ages, focusing more on up-and-coming performers rather than major acts, says Bajjal. But the big acts are there, too. Last year, they included longtime festival supporter Jane Siberry; this year, they include Colin James with Colin Linden, Mary Jane Lamond, John Southworth, Connie Kaldor and Valdy.

Along with 40 musical acts, the festival features readings by authors such as Leon Rooke, workshops, performer jams, hand-drumming circles, children's events, an environmental expo, a women's issues tent, crafts and a variety of international foods.

The festival runs from 5 to 11 p.m. Friday and 11 a.m. to 11 p.m. Saturday and Sunday. Weekend passes are \$50 in advance, \$60 at the gate. For individual days, the cost is \$20 for Friday evening, \$30 for an all-day pass Saturday or Sunday and \$25 for Saturday or Sunday evening. Advance tickets are available downtown at the Bookshelf, Stone Store and Looney Tunes.

A day parking pass is \$3, but bus transportation is also available from downtown. For more information, call 763-6396. □

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AT GUELPH

41st
Year

Volume 41 No. 17

University of Guelph, Guelph, Ontario

September 10, 1997

AT A GLANCE

Welcome/welcome back!

Whether you're the new kid on campus or an oldtimer just back from that oh-so-short summer break, welcome. Have a great year and be sure to stay tuned to *At Guelph* in print or on the Web for all the latest campus news.

Walkies! OVC will hold its second annual walkalong to raise funds for its small-animal intensive-care unit Sept. 21. Registration begins at 10 a.m.; the walkalong leaves from the front door of OVC at 10:30 a.m. Bring a pet or just walk along with or without a borrowed pet. The walk runs five or 10 kilometres around campus, depending on the size of the animal and the stamina of the human. Pledge forms are available at the OVC dean's office or Small-Animal Clinic.

CCS seminars set.

Computing and Communications Services (CCS) is again offering a fall series of training seminars on the Internet, Web page creation, Windows '95 UNIX and SAS and SPSS. These are open to the entire University. For details, see the seminar information page on the CCS Web site <http://www.uoguelph.ca/CCS/suppserv/seminars/>. Registration begins Sept. 12 at 9 a.m. and can be done on the Web at <http://www.uoguelph.ca/suppserv/seminars/registration/> or by phone at Ext. 3173. Phone



Let the semester begin...

More than 3,200 first-year students got a big welcome to campus last week through a wide variety of orientation activities. At left, two students take a shine to photographer Martin Schwalbe as they participate in Shinerama to help raise funds for the Canadian Cystic Fibrosis Foundation. Below, a student makes a big splash on campus.

Photos - Martin Schwalbe



Guelph's popularity boosts first-year enrolment

by Alexander Wooley

If it seems that once again there are a few more fresh faces on campus this year, it's no illusion. As of Sept. 8, the total number of full-time first-year undergraduate students registered was 3,221, an increase of 34 students over last year.

This means that for the second year in a row, U of G has succeeded in its goal to maintain its first-year undergraduate enrolment in eight targeted degree programs at a level at least 400 full-time students higher than in the 1995/96 base year. This year's enrolment in these programs is actually 425 students higher, 25 more than the goal for these programs. Of course, numbers will fluctuate as registration is completed.

Numbers don't tell the whole story, though. For staff and faculty, attracting quality students has become a special talent and is the University's goal as much as total numbers.

"Personal contact is part of the spirit here at Guelph," says graduate studies dean Alastair Summerlee, chair of the Enrolment Management Committee. "We try to get in touch with students as early as possible in the application stage, arranging campus visits and making people available to answer questions. We have a unique approach here."

Adds provost Iain Campbell: "As the competitive environment and aggressive marketing of higher education have increased, Guelph's promise of a unique and quality experience has been earning high marks with potential students. And just as U of G has changed the way it recruits new students, the University, in turn, has seen a change in the students themselves."

Chuck Cunningham, director of enrolment management and registrar services, agrees. "Students shop around more than they did a few years ago, they're selective and savvy, and we've managed to benefit from this."

First-year sociology student Sarah Kimber of Port Colborne decided to come to Guelph after she paid a visit to campus and liked what she saw.

"Another factor in my choosing Guelph was that many students and former students come back to Port Colborne every year and say it's a good place to study," she says.

First-year HAFA student

Sharon Leung of Toronto didn't even have to visit Guelph to know that it was the place for her. By noon Sept. 2, forms and calendar clutched to her side, she had chosen her courses and completed registration — all before taking a tour of the campus.

Leung first considered U of G after seeing its high ranking in the *Maclean's* magazine university issue. That was just one incentive. "Guelph also had the program I wanted, and the fact I was guaranteed a spot in residence also helped in my decision."

Cunningham thinks there are myriad factors contributing to U of G's growing popularity, including the dozen different living-environment options offered (more than at other Ontario universities) and a unique "small town" campus feel in a city that's still close to a major metropolis, Toronto.

This fall's larger first-year class was drawn from an applicant pool 15 per cent bigger than last year's. The jump in students applying to Guelph is all the more noteworthy because it comes at a time when universities province-wide have seen applications drop by an average of two per cent, says Cunningham.

"What's particularly heartening," says president Mordechai Rozanski, "is that a substantial majority of our entering students made us their first choice. This augurs well for their commitment

to the University and for retention. Our recruitment success is a reflection of the quality of our programs, faculty and services, plus the University doing a great job communicating with potential students."

It's a delicate balancing act, one that looks to achieve increased enrolment and maintain quality, says Summerlee. Average cutoff marks across campus this fall were actually slightly higher — about 80 per cent — than in 1996. Twenty-five of Guelph's 35 programs posted equal or higher cutoffs than last year. Realistic enrolment targets were set with an eye kept firmly on academic qualifications, he says.

Another sign of robust enrolment is the residence picture, where the University has expanded capacity by some 80 beds to accommodate the increased demand. Planning for this expanded capacity was initiated by Residence Life in March, assisted by Interhall Council. The reconversion of Macdonald Hall to residence status is slated to begin shortly.

Occasionally, Summerlee is rewarded with a note from a previous generation of students who recall when things were less personal. "The most common letter I receive is from parents who say: 'I wish it had been like this when I went to university.' I consider that a real accolade for us, for what we do at the University." □



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Obituaries

Susan King

Susan King, a clerk in the University Centre director's office, died Sept. 5 after a long illness. She was 33 and had been employed at U of G since 1990. She is survived by her husband, John, her parents and three sisters.

Eric Williams

Eric Williams, a driver with Physical Resources who had been employed at U of G since 1986, died Aug. 21 at the age of 47. He is survived by his wife, Linda Graham, his daughter, Sharlyn Graham, and his father, Harry. A tree will be planted in his memory at the Wall-Custance Memorial Forest Sept. 21 at 2:30 p.m.

Mary Ellen Ferguson

Mary Ellen Ferguson, a computer operator in Computing Centre Services, died suddenly July 26 at the age of 52. She had been employed at the University since 1982. She is survived by her parents, Kay and Earl, of Port Carling; a sister, Margaret Conway; three brothers, Garry, Bill and Peter; and nieces and nephews. □



The first week of the fall semester saw remembrances marking the sudden passing of Diana, Princess of Wales. Flags flew at half-mast on campus, and in the Department of Environmental Biology, the photo of the princess shown above was placed over a message that read, in part: "We watched your dazzling flight for too short a time, as the people's princess."

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Novartis joins Guelph 'agri-cluster'

by Andres Kahar
Office of Research

Novartis Crop Protection, one of Canada's leading crop-protection companies, is setting up its national headquarters at the U of G Research Park.

Novartis Crop Protection's new \$2-million, 18,400-square-foot headquarters will be up and running in the park by the end of the year. The company is currently based in Mississauga.

"We're a new company in search of a home, and what better place for a home than Guelph, a bastion of agricultural research," says company president Warren Libby. "Here, we're close to the University of Guelph, OMAFRA (the Ontario Ministry of Agriculture, Food and Rural Affairs) and farmers. This brings us closer to the customer."

The move also crystallizes the vision of Guelph as an agri-business cluster. At a ground-breaking ceremony this summer, Prof. Larry Milligan, vice-president (research), underlined the agri-cluster connection with Novartis Crop Protection.

"This shows the infrastructure is in place (in Guelph) for the agri-food business cluster to advance and play a pivotal role in the Canadian and international agri-food industry," he said.

Libby agrees. He believes Canadian farmers will benefit most from his company's ready access to U of G's "top knowledge and expertise."

Novartis Crop Protection, which resulted from a merger of Ciba-Geigy and Sandoz at the beginning of this year, focuses on the research and development of environmentally friendly herbicides, top-of-the-line seed-treatment technology and effective fungicides and insecticides.



Warren Libby, president of Novartis Crop Protection, left, and vice-president (research) Larry Milligan dig in at a ground-breaking ceremony in the U of G Research Park.

Photo - Martin Schwalbe

"Being able to work with University faculty and students, as well as with producers, will give us and Guelph a leading edge," says Libby.

The word "national" also figures prominently in the company's agenda. With its eye on such crops as wheat, canola and barley, Novartis Crop Protection has made dramatic inroads in the Western

Canadian market with its first major product, Horizon — a wild oat, green and yellow foxtail herbicide.

"Now I look forward to establishing our headquarters in Guelph, where agriculture is more diversified," says Libby.

That Novartis Crop Protection enjoys esteem in the agricultural marketplace is evidenced by the company's global sales last year of \$5.3 million.

"It will only get better now that we're in Guelph, which is fast becoming a national hub of agricultural research," says Libby. "Mississauga was closer to the airport, but it wasn't close to agriculture or research." □



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AMF continues support for computer-based learning on campus

Faculty, staff and retirees will soon receive an invitation from the 1997 Alma Mater Fund (AMF) to help make computer-based learning more accessible to U of G's 12,000 undergraduate students.

One of the goals of this year's AMF is to match last year's contributions of \$120,000. This money was directed to establishing a flagship multimedia learning centre in the University Library. This year's funds — and possible future contributions — will be earmarked to upgrade "satellite" student computing facilities in the colleges.

The need to add more computer facilities, especially of the multimedia type, is urgent, says Prof. Iain Campbell, provost and vice-president (academic). Existing facilities are rapidly becoming insufficient to meet the current — much less the future — needs of Guelph's students, he says.

U of G is committed to maintaining an excellent learner-centred education, and many of its faculty are recognized as leaders in integrating multimedia and computer-based learning into the curriculum, says Campbell.

"For both our students and our

faculty, computers extend the classroom experience and are essential to the evolution of teaching and learning at Guelph."

Paulette Samson, director of alumni affairs and development, notes that the AMF's campus fund appeal has enjoyed generous support from the University community over the years.

"With these funds, Guelph has been able to implement valuable teaching, research and community-service initiatives that would not otherwise have been possible," she says.

Samson adds that strong support from the internal community is an inspiration to alumni who also support the University through the AMF and act as volunteers. She extends special thanks to Larry Argue, a 1958 U of G graduate who is volunteer chair of the 1997 AMF advisory committee, and to his team of volunteers.

Donors to the campus fund appeal who wish more information on how to contribute should call Pat Holmlund, acting manager of the annual fund, at Ext. 2122 or send e-mail to pat@alumni.uoguelph.ca. □

Impact of year 2000 under study at U of G

U of G has established a Year 2000 Steering Committee to assess the impact of the year 2000 on equipment, systems, processes and procedures at U of G.

Chaired by Doug Blain of Computing and Communications Services, the committee will also identify the impact of the year 2000 on areas where the University interacts with external organizations such as financial institutions, the Ministry of Education and Training and insurance and benefit providers.

The arrival of the year 2000 poses a number of significant challenges for all organizations' computing systems and the processes and practices that depend on them, notes Blain. That's because in the early days of computing, in an effort to save programming space, only a two-digit field was used to indicate the year. This now means that computer programs that do calculations beyond 2000 are producing incorrect answers, he says.

Computer programs also assume that the leading two digits for the year are "19" and, in fact, reset themselves to "19" no matter what the input. To complicate matters further, 2000 is a leap year, whereas 1900 was not.

"If you consider the number of date-sensitive functions that are part of the University's processes and procedures, from the year of graduation to the time elevators are locked off, it becomes obvious that the implications of the year 2000 challenge are pervasive," says Blain.

Although U of G has already begun to address many of these issues through the replacement of

major computing systems such as student information and budgeting, it's important that Guelph carefully assess the scope of potentially affected systems and processes and that an action plan be developed to address these, he says.

"The assessment process will focus on the cost/benefit of replacement of systems compared with changing the way that units carry out certain processes or procedures. It's important that units be provided with cost-effective solutions."

Once the assessment is completed, the committee will establish task forces as necessary to develop action plans to deal with specific issues, promote awareness of the year 2000 challenge on campus, recommend strategies to Executive Group for resolving issues identified, monitor progress on strategies agreed to by Executive Group, and provide regular progress reports to the group and University community.

Other committee members are Prof. David Swayne, Computing and Information Science; Murray Stinson, Institutional Analysis and Planning; Darlene Frampton, Communications and Public Affairs; chief librarian Michael Ridley; David Beattie, OAC; Wayne Marsh, Office of Research; Chuck Cunningham, Registrarial Services; Dave Boeckner, Hospitality Services; John Flowerdew, Physical Resources; John Miles, Financial Services; Vic Reimer, Human Resources; judicial officer Kathleen Kwan; Joanne Faight, Internal Audit; and Keith McIntyre, Security Services. □



On hand for the official opening of GFTC's main pilot plant and product developments labs are, from left, Bill Allen of OMAFRA; vice-president (research) Larry Milligan; Sandy Bibby, chair of GFTC's board of directors; Don Murray, past president and CEO of GFTC; and current president and CEO Terry Maurice.

Photo - Martin Schwalbe

GFTC opens main pilot plant, labs

by Margaret Boyd

The Guelph Food Technology Centre (GFTC) recently fulfilled a dream by opening its main pilot plant and product development laboratories, more than doubling its ability to provide dedicated food research for the agri-food industry. The Aug. 28 opening was attended by government, industry and U of G representatives.

In its first two years of operation, GFTC has earned recognition for its "strong customer service ethic," said Bill Allen, deputy assistant minister of agriculture, food and rural affairs, who brought congratulations from the Ontario Ministry of Agriculture, Food and Rural Affairs.

The new main plant provides 6,000 square feet of space for food industry research and product development. Attached to the main plant is a 1,341-square-foot cold preparation room and an 800-square-foot hot preparation room. A new bake lab, approximately 1,400 square feet, is used for bakery research and bakery courses run by the American Institute of Baking. Product development and applied research labs (each 1,400 square feet), a 60-seat lecture theatre that is shared by GFTC and U of G and the 20-seat Pearson Memorial Room are located on the second floor of the new addition.

GFTC, a unique partnership among the food industry, government, the University and labor, has a proven track record in providing research and technological expertise to the food industry. Even though the centre has not had its pilot plant and had only limited access to labs, more than 370 contracts have been signed and more than 250 companies have benefited from product development, training and research support since the centre opened in 1995.

GFTC is an enormous benefit for U of G because it allows student involvement in and understanding of food science research, said Prof. Larry Milligan, vice-president (research). "It adds to

the richness of student experience. It provides research opportunities for faculty and students that we wouldn't have otherwise."

GFTC has become an important player in the development of an agri-food cluster at Guelph and in a national endeavor to establish a network of centres of excellence in functional foods and nutraceuticals, said Milligan. The network would include researchers at the University of Toronto and University of Alberta, among others.

The GFTC concept is unique in North America. By providing an interface among researchers at Guelph, government labs and the food industry, it aids in the flow of technology transfer, said Don Murray, GFTC's outgoing president and CEO. (Terry Maurice, formerly of Ault Foods, assumed the position of president and CEO Sept. 1.)

OVC recruits canine, feline blood donors

OVC's Veterinary Teaching Hospital is out for blood.

The hospital is looking for new canine and feline recruits to donate blood throughout the year to help the facility take care of its patients.

Most suitable for the blood-donor program are happy, even-tempered animals with no current health problems. Cats must be aged one to seven years, must be neutered or spayed, must be maintaining an ideal weight between nine and 12 pounds, and must live indoors.

Dogs must be aged one to seven, must be male or a spayed female and maintaining an ideal weight of at least 25 kilograms. A number of canine breeds are not eligible because they don't have a universal blood type — rottweilers, Labrador retrievers, Chesapeake, golden retrievers, ridgebacks and bouviers.

Dog donors must give blood six

GFTC began as an idea of the University's Food Council — composed of representatives of food companies and U of G — that the Canadian food industry needed an independent technical centre devoted to food-processing development. The Ontario government's Sector Partnership Fund provided \$15 million for the project; industry contributors provided the equivalent of \$18 million.

Of the total, \$14.2 million was designated for construction of the open pilot plant and second-floor product development labs, renovation of the Food Science Building and construction of new product testing labs in FACS.

Phase 1 of the pilot plant was opened by then-premier Bob Rae in November 1993, and the GFTC was officially open for business Jan. 1, 1995. □

times a year, cats donate four times.

In return for participating in the program, the hospital and its sponsors will provide a free general physical exam, including nail trim, by a registered veterinary technician with each donation; free annual vaccinations; free annual CBC/profile, urinalysis and fecal analysis; free screening for feline leukemia virus, feline immunodeficiency virus and *Haemobartonella felis* for cats; free heartworm screening for dogs; free heartworm preventive medication supplied by Novartis for dogs; and free blood typing for dogs. In addition, a small bag of cat or dog food will be provided after each donation.

Anyone interested in volunteering for the program should call Ramona Fowler or Helen Scott at Ext. 4149. □

High school co-op program recognizes long-term role of U of G

Seventeen academic departments and administrative units at U of G are marking at least 10 years of participation in co-op programs with local public and separate schools that have proven to be a winner for both the students and the University.

The departments of Biomedical Sciences, Computing and Information Science, Drama, Environmental Biology, Geography, Land Resource Science, Microbiology, Pathology and Zoology, the School of Engineering, Animal-Care Services, Athletics, the Arboretum, Financial Services, Hospitality Services, Security Services and CFRU radio are to receive plaques in recognition of longtime participation in the Wellington County Co-operative Education Program.

Under the program started in 1974 by George King at Guelph Collegiate Vocational Institute, high school students from Centennial Collegiate Vocational Institute, Centre Wellington District High School, College Heights Secondary School, GCVI, John F. Ross Collegiate Vocational Institute, Our Lady of Lourdes High School, St. James High School and the Holy Family Education Centre are placed in positions on campus or with local and district businesses and industry. U of G has been part of the co-op program since 1975.

Two work programs, each involving some 350 students in the county, run each term beginning in September and February. Each work term lasts 12 to 14 weeks, with the students working half-days. They are not paid; they earn

two credits per term.

Bill Swann, co-op education resource teacher with the Wellington County Board of Education, and Will Lenssen, resource teacher with the Wellington County Separate Board, say the students who participate in the program gain maturity and confidence as they interact with adults in real-world situations. Students placed at U of G also have the advantage of career exploration. They are placed in areas where they are considering careers and are able to gain first-hand experience that helps them determine if

they are in the right discipline for them, he says. Many students also establish a rapport and reputation that help them get summer jobs when they later attend U of G.

Prof. Alan Watson, director of the Arboretum, which hires co-op students for its interpretative program and grounds maintenance, says the students bring energy and excitement to campus. While here, they learn about Guelph's programs and often apply for undergraduate admission, he says. Then, as U of G students, they continue to work at the Arboretum, providing and continuity to

the centre's programs.

Hospitality Services has hired high school co-op students for many years as porters and to do preparation work in the kitchens. "The program works well for the students and us," says Hospitality Services director Dave Boeckner. "The program is a learning experience for them, and it enables us to help the hospitality services industry of which we are a part."

Recruitment for this fall term is well under way. During the second and third weeks of September, the students will be interviewed by employers, then

matched to placements by their teachers. For most programs, the students' first day on the job is Sept. 22.

The co-op program is always recruiting employers, says Swann, who is particularly keen to hear from faculty who may wish to hire students. There is no central campus contact for the program. "It is all personal contacts and word-of-mouth," he says. Anyone interested in hiring a high school student under this program can call Swann at 766-9582, Ext. 361, or Lenssen at Ext. 305. □

Data Resource Centre pilot project proves a success

The Data Resource Centre (DRC), a collaborative service of the U of G Library and Computing and Communications Services (CCS), has just passed a milestone by completing its six-month term as a pilot project.

And it's proved to be a big success, says project leader Bo Wandschneider. "Feedback on campus as well as beyond has been extremely positive. Faculty and students have been very supportive of the service and are making plans to use it in their teaching and learning."

The six-month pilot period gave DRC staff a chance to gain experience with the requirements of a service to support learning and research needs related to statistical and other numeric data, says Wandschneider.

"With the enormous shift in the way information is being disseminated, there is an opportunity for expanded and improved research and teaching," he says. "The demand from the user community for a service to take advantage of these opportunities has been growing steadily."

Located in Room 061 of the McLaughlin Library and at <http://drc.uoguelph.ca> on the Web, the centre is overseen by a management committee consisting of Ron MacKinnon of the library and Phil Jones of CCS.

At recent meetings related to the Data Liberation Initiative in Ottawa and the Canadian Association of Public Data Users in St. John's, the DRC project was widely acknowledged as an innovator in providing Web access to numeric information, says Wandschneider. Discussions are under way for collaboration with other institutions interested in the model used at Guelph, he says.

The vice-president (academic) has nominated the DRC for an innovation award from the Canadian Association of University Business Officers.

Chief librarian Michael Ridley says the project has been successful for a number of reasons, including the dedication of staff and the vision and creativity of project members.

"In addition, the process stressed teamwork, collaboration and consultation; the results

bear out the value of that approach. It was also successful because it focused on a strategic need identified by our users. The user community was anxious for such a service and willing to work with the team to make it successful."

At a recent meeting of the Vice-President's Advisory Committee (VPAC), CCS and the Library presented a review of the DRC pilot project with the recommendation that it move from a pilot to a regular ongoing service. VPAC agreed.

"Although there's a lot of work still to be done, the team has managed in a short time to build a functional system that allows users easy access to an extensive list of Statistics Canada, ICPSR and 'private' data," says Wandschneider. "This is well beyond what is being done at most other institutions."

Staff will now continue developing the Web interface and adding data to the system, he says. "The emphasis will be on consulting with the research and teaching community on what resources are available and how they may best use them." □

University of Guelph Library: Changing to serve you better!

Library reorganization, Phase 1: Fall 1997

Changes in Information Services

- The Social Science Reference Service, formerly located on the third floor of the McLaughlin Library, and the Humanities Reference Service, formerly located on the fourth floor, have been amalgamated and relocated to the first floor of the McLaughlin Library. Reference staff are no longer available on the third and fourth floors.
- Reference materials formerly located in Social Sciences (third floor) and Humanities (fourth floor) are now located on the first floor of McLaughlin.
- The Science and Technology Reference Service continues to be available on the second floor of the Library.

Reference hours increase

- During regular fall hours, reference service will be available at the two main service points (Social Sciences & Arts on the first floor and Science & Technology on the second floor) from 9 a.m. to 9 p.m. Monday to Thursday, 9 a.m. to 4:30 p.m. Friday and 1 to 4:30 p.m. on weekends. Reference service for Documents & Government Publications (Lower Level, McLaughlin Library) and Veterinary Science will be 10 a.m. to 4:30 p.m. Monday through Friday.

Group study space relocates

- Group study space has moved from the Forster Room on the main floor to the fourth floor. As always, you may also sign out one of several small-group study rooms. Ask at the Reserve Desk on the first floor of the Library.

Change can be difficult, but has its rewards

- Physical moves of books, computers, furniture and staff take time, make noise and create a mess! We apologize for any confusion or disruption to our users. These changes make it possible for the Library to provide, with existing staff levels, increased reference service at two main reference desks, more and better access to information on the World Wide Web, an expanded library education program, new services for distance education students and a new library catalogue in January. We are making better use of the staff and space available to us and hope that by providing a more integrated and interdisciplinary approach to reference service, we can respond better to the changing nature of research and study at the University.

Your feedback is important to us!

If you have questions, comments or concerns, please contact the following:

- Jim Brett, Science & Technology Team Manager (Ext. 2310, jimbrett@uoguelph.ca);
- Helen Salmon, Humanities & Social Science Team Manager (Ext. 3150, hsalmon@uoguelph.ca); or
- Ron MacKinnon, Head, Public Services (Ext. 2121, rmk@uoguelph.ca).

We also encourage you to use one of the question/comment forms available at the question-and-answer board on the first floor of the Library. For more information, see the "What's New?" board in the Library or visit our home page at www.lib.uoguelph.ca.



In Portugal, PhD student Glenn Boyle helps his seal charges get settled into their new home.

Portugal gets seal of approval

by Barbara Chance

It wasn't their usual mode of transportation, but seven University of Guelph seals took to the skies this summer to traverse the Atlantic Ocean. Destination: Albufeira, Portugal, and a new home. Their departure marked the end of more than 30 years of captive-seal research at U of G.

Zoology PhD student Glenn Boyle, manager of Guelph's captive-seal facility since 1994 and the last U of G student to do research on the animals, accompanied the four harbor seals and three grey seals on their overseas flight and spent several days making sure they were settled into their new quarters at Zoomarine, a commercial facility in southern Portugal. Zoomarine will use the seals as part of its new pinniped exhibition, as well as in breeding and educational programs.

Boyle says he bade farewell to the seals with a mixture of emotions. "I felt sad because, over a period of years, you get attached to them and you learn their characters and personalities—they're more than research animals. But I was also happy because they've gone to a good facility with dedicated staff who will look after them well and give them whatever they need."

Financial reasons

Guelph's captive-seal research program, launched in 1966 by U of G honorary fellow Keith Ronald while he was chair of the Department of Zoology, has been downsizing for a number of years, largely because of financial reasons, says Boyle.

"It's been increasingly difficult to get funding, and it's expensive to maintain large animals. If this program had continued, our housing requirements would have had to be significantly updated with tank repairs and modifications. With only one researcher still using the facility, the Department of Zoology could not afford to keep it running."

In the heyday of Guelph's seal research program, campus facilities held 30 to 35 animals, were the prime research site of several U of G faculty and numerous graduate students, and drew researchers from around the world. A state-of-the-art whirlpool flume (a kind of swimming tread-

mill) was the envy of many other aquatic facilities.

In the early 1980s, Guelph's seal research was the subject of two award-winning films, *The Harp Seal* and *The Hooded Seal*, made by U of G cinematographer Norm Lightfoot and the Office for Educational Practice. In all, Guelph's seal research program resulted in about 200 academic papers and drew some 40 graduate students to study here.

It all began 31 years ago when Ronald, who would later become known as the "Great Seal of the University," set up a seal tank in the basement of the Axelrod Building. It contained one seal and an otter. From these humble beginnings came a research program that would lay the groundwork for providing the world with the fundamental information needed to understand seals.

When Ronald started, "there were so many holes in our knowledge of seals," says Boyle. "We didn't even know how to keep them in fresh water. But over the next two decades, Keith's wide-ranging work in everything from bioenergetics and nutrition to methods of population control became key to understanding the basic physiology of seals. It was influential in all areas of seal biology."

Joining Ronald in seal research on campus was Prof. Joe Geraci, a pathologist in the Department of Zoology whose world-renowned work focused on nutrition and disease. He moved to the Department of Pathology in the 1970s and retired in 1995. He is now the scientific director at the National Aquarium in Baltimore.

As Guelph's seal research program grew, it required larger quarters and found them in 1968 in a former bullring and abattoir that belonged to the Department of Animal and Poultry Science. Now known as Zoology Annex 3, the building came equipped with a rail system in the ceiling that was modified to transport seals from one tank to another. Soon afterwards, a number of outdoor seal research tanks were also set up at the Arboretum.

In the early 1970s, Ronald instituted a pinniped bibliography, a collection of scientific publications that became one of the most comprehensive collections of its kind in the world. It is now

housed in the basement of the University Library.

Among the graduate students working in the seal program was David Lavigne, who earned his PhD with Ronald in 1974, then joined the Department of Zoology as a faculty member and established his own research program. His graduate research focused on seal vision. Later, his interests turned to seal censusing, then to seal bioenergetics.

Among many research achievements, Lavigne's laboratory "was crucial in standardizing the way we measure metabolic rates in seals," says Boyle, a student of Lavigne's. "That work has radically affected our perceptions of the energy requirements of seals. As a result, seals are now considered to be much more energy-efficient—no different, in fact, than other mammals. We now know that their potential to affect fisheries is considerably less than previously thought."

Boyle's own work on seals has focused on the anatomy of the gastrointestinal tract, digestive physiology and feeding preferences.

Leading centre

All this research—plus the widely respected field studies conducted on whales and porpoises by zoology professor David Gaskin—made Guelph the leading centre for marine mammal research in the world, says Ronald, who went on to serve as dean of the College of Biological Science for 12 years and director of the Arboretum for six years before finally retiring in 1994.

"Guelph's seal facility was unique in the world," he says. "There was always a lot of mythology and emotion surrounding seals, but we got down to the basic reasons why seals do what they do. That kind of information has allowed people around the world to manage seal populations more correctly."

Ronald wound down his seal research in the late 1980s; Lavigne continued his work until 1996, when he accepted a buyout from the University. He is now an adjunct professor in the Department of Zoology and executive director of the International Marine Mammal Association, a not-for-profit organization based in Guelph.



Retired zoology professor Keith Ronald, shown here in 1976, launched Guelph's captive-seal research program in the 1960s.

Even back in the early 1980s, the seal facility was faced with concerns about high costs and shrinking grant support. To ease the situation in 1983, 11 of the University's 17 seals were farmed out to other facilities across Canada. Over the next few years, however, the population rebounded and sat at 15 when Boyle began his graduate work in 1991. But that number began to decline again as research projects wound down and funding dwindled.

"For the past few years, we've been holding on by our fingernails," says Boyle. He gives credit to the Department of Zoology, the University's Animal-Care Committee and his animal-care volunteers for enabling the facility to run as long as it did. This gave him time to finish his research and find new homes for the seals.

Of the 15 grey and harbor seals in residence in 1991, one harbor and one grey have since died from medical causes and four that had been caught as adults have been released to the wild. The most recent release was in June, when two seals were returned to the St. Lawrence estuary, just a few hundred kilometres from where they had been caught.

The seven seals that remained could not be released into the wild because the harbor seals had been taken as pups and the grey seals had been born on campus, says Boyle. So the hunt was on to find them a new home.

An ad in a commercial zoo/aquarium publication received several responses, but only one facility—Portugal's Zoomarine—was able to take all seven seals, he says.

"Although it's farther away than some other facilities, we thought it was better to keep all the animals together."

Opened in 1991, the Portuguese facility got high ratings from references contacted by Boyle. It covered all costs of transporting him and the seals to Portugal in July, and last month it also paid for the transport of 10 ringed, harp and harbor seals from Me-

morial University's downsizing captive-seal research program.

Guelph's animals were transported in seven large wooden cages by refrigerated truck to Toronto and into the cargo hold of an Air Portugal plane. "As long as they are kept cool, seals don't need to be wetted," says Boyle. "The transport went well, and all the seals arrived safely and in apparent good health."

His relief at delivering the last of his charges was short-lived, however, when he learned that one of the harbor seals had become ill and died 10 days after its arrival.

"The post-mortem results have not identified the cause of death," he says. "We are still learning about many aspects of seal physiology. It is possible that the seal's death was stress-related, but we cannot be sure."

The other six animals are all doing well, he notes.

Boyle believes the closing of Guelph's program and the downsizing of the Memorial program is sad news for captive-seal research in Canada. "Guelph and Memorial probably produced 75 per cent or more of the research that was done on captive animals in this country."

In addition, a third captive-seal colony at Dalhousie University is also expecting to downsize significantly, he says.

"Captive research is a vital part of increasing our knowledge of these animals and their interactions with the environment. And it's important for scientists to be able to communicate that knowledge to the general public, to provide an informed and balanced view that people receive."

Ronald agrees. "There really needs to be somewhere in Canada where major work can be done in a controlled facility, so we can continue to obtain the physiological and ecological information we've been gathering over the past 30 years. You just can't get that kind of information in the wild." □

Myths about youth crime need debunking, sociologist says

by Margaret Boyd

The two biggest myths about youth crime — that it is on the increase and that young people are "getting away with murder" — are fuelled largely by sensational media coverage and overgeneralized personal anecdotes about young offenders.

That's the conclusion of a U of G study by sociologist Susan Reid-MacNevin, who is vice-president of the John Howard Society of Canada.

What is not taken into account is that prior to 1984, when the Young Offenders Act (YOA) was proclaimed, youth court hearings were closed to the public and media. Youth crime may be perceived to be rising because it is now being reported in media accounts, she says. And any increase in reporting may lead to the perception that youth are out of control compared with the past, when such reports were not published.

To reduce crime, Canadians do not want to put more young people in jail or transfer them to adult court — even though they erroneously believe that youth crime is on the rise, a study by Reid-MacNevin has found. Rehabilitation, community involvement and accountability to the larger community were reported as the best ways to resolve youth crime problems by the 253

people interviewed for the study.

"People want to promote more of a restorative justice approach," says "If the victim as well as the offender of the crime is involved in the process, there is more accountability to the community rather than the state taking over once an act has been committed."

Public perceptions about youth crime are strongly influenced by myths perpetuated by misinformation, according to Reid-MacNevin's study, which is cited in the recent federal report "Renewing Youth Justice" by the Standing Committee on Justice and Legal Affairs. The report recommends the promotion of public education campaigns about youth crime, the YOA and the youth justice system in conjunction with community agencies.

"The youth crime rate is down four years in a row, but the public doesn't believe it," says Reid-MacNevin. "It can be argued that the current public non-confidence in the Young Offenders Act is based primarily on the perpetuation of myths."

Misinformation also feeds the myth that young people go unpunished for serious crimes, says Reid-MacNevin. Not many Canadians are aware that a 1995 amendment to the YOA increased the maximum

penalty for first- and second-degree murder in youth court to 10 and seven years respectively and provided for an automatic transfer to adult court for 16- and 17-year-olds who commit "serious" offences, she says.

Reported increases in violent crime statistics must also be taken in context, she says. Of the total violent offences committed by young people in 1994/95, 51 per cent of the charges were laid in cases of level-one assault involving no serious injury or weapon. Most of these cases involved zero-tolerance-policy incidents in schoolyards, which by law must be reported to police.

Other little-known facts about youth crime include:

- Young offenders receive similar — if not more severe — sentences than do adults convicted of the same offences.

- Fourteen per cent of all young offenders are incarcerated in a secure facility. (Data show that Canada has one of the highest youth custody rates of common-law countries at a rate of 447 per 100,000 population. In comparison, the United States, which has a crime rate more than five times higher than Canada's, has a youth custody rate of 311 per 100,000.)

- In 1995, the total number of crimes committed by youths aged 12 to 17 ac-

counted for only 23 per cent of all crimes in Canada.

- Young offenders accounted for six per cent of all homicide cases in Canada in 1993, a decrease of nine per cent decrease from the previous year.

In a related study of media coverage of youth-related stories in five daily newspapers over a one-month period, Reid-MacNevin and graduate student Melanie Bremner found that newspapers generally have a negative bias towards youth. Although there were an equal number of good- and bad-news stories, the good-news stories tended to also contain negative messages about youth, which may affect the perpetuation of myths about young people more generally.

"In my mind, a more restorative approach to youth justice with an informed and committed community is needed to assist in reducing the incidence of youth crime in Canada," Reid-MacNevin says.

Reid-MacNevin recently joined St. Thomas University in New Brunswick as an associate professor of criminology and plans to continue her work in the area of youth justice and images of adolescents in contemporary Canadian society. □

Fatty acids may be key to restoring male fertility

by Jeff Stuart
Office of Research

Infertile men may some day take pills made from the oil extract of algae to enhance the quality of their sperm, thanks to some new ideas from researchers at U of G.

Adjunct professor Julie Conquer and Prof. Bruce Holub of the Department of Human Biology and Nutritional Sciences are conducting a one-year study in collaboration with Dr. Francis Tekpetey at the London Health Science Centre to examine the role of the fatty acid docosahexaenoic acid (DHA) in sperm function.

Previous research has shown that the ejaculate of infertile men has about 60 per cent less DHA than that of fertile men. DHA is a necessary component of sperm cell membranes, and the U of G researchers believe that low levels may be a cause of the reduced sperm motility of infertile men. DHA supplements made from algae extracts are already available in the United States. They are manufactured by Martek Biosciences Corporation, which is sponsoring this study.

Infertility affects one out of every 10 couples. "About half of these cases are due to infertility of the male partner," says Conquer. "Correcting male infertility will help a lot of couples trying to have a child."

The causes of male infertility are not completely understood. Although DHA levels are lower in the ejaculate of infertile men, it's not known if this is due to less sperm in the ejaculate or if these sperm have low amounts of DHA in their membranes. Conquer and her colleagues have designed a study comparing DHA levels in fertile and infertile men that will determine which of these two possibilities is correct. Tekpetey is measuring sperm counts and sperm motility in fertile and infertile men entering his clinic. In Holub's laboratory, sperm and semen samples are being tested for DHA levels. In addition, the levels of DHA in blood will be measured to see if low blood DHA is related to low sperm DHA.

The study will also include clinical trials, with some of the infertile men given supplements of differing amounts of DHA, to see whether this results in healthier sperm. Low sperm motility is the major factor responsible for male infertility. If low DHA levels in the membranes are causing decreased sperm motility, then dietary supplementation of DHA may increase its incorporation into sperm membranes, restoring their function, improving motility and ultimately increasing fertility.

"With the results of this study, we will better understand the significance of the low DHA levels of infertile men and be able to make some recommendations as to what levels of dietary DHA supplementation could help to restore sperm function and therefore fertility," says Conquer. □

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PhD student Dan Nuttall, who designed the African Savannah Project now under construction at the Metro Toronto Zoo, will spend the next six months in isolation in Mozambique studying an endangered bird.

Photo - Christina Clark, Office of Research

Elusive bird calls landscape architect to study in forests of Mozambique

by Margaret Boyd

The prospect of six months of dangerous isolation in a Mozambique forest to study an endangered bird species is a risk that U of G landscape architect Dan Nuttall is willing to take.

Nuttall, a doctoral student, will leave for Africa Sept. 14 equipped with anti-malarial medication, camping gear and an open mind. "I may come back with lots of data or no data at all," he says. "I may change the questions I am asking. There are a lot of unknowns... I've had a few sleepless nights thinking about it."

He plans to study the olive-headed weaver, a bird species that has been declared "threatened" by the Endangered Wildlife Trust (a non-governmental conservation organization), as part of a development proposal for "ecotourism" in Mozambique, a predominantly forested country with a rural-based population. He will also look at sustaining human and non-human animal communities living in and near a 10,000-hectare forest in Inhambane province, with a view to establishing it as a protected area.

Little is known about the olive-headed weaver except that it has been sighted in the Mozambique forest and also exists in Zimbabwe and Tanzania. The bird is a starting point for the project because threatened bird species are indicators of larger threats to the ecosystem, says Nuttall. To protect the area, ecological threats must first be understood.

In addition to seeking the bird and possibly using banding and mist nets in his initial biological study, he will tap local communities for their knowledge and conduct rural appraisals.

"We have to make a greater commitment to threatened species," says Nuttall, an expert on zoological design and animal needs. "We have to take a complex systems approach to saving environments, and we need a social approach. The people's rela-

tionship with the land is so profound that it exceeds what I can do in six months."

Stakeholders in the project are the local people, tourists and the animal species, says Nuttall, who designed the African Savannah Project now under construction at the Metro Toronto Zoo. His background in biology, animal behavior and landscape architecture contributed to his involvement in designing the project.

"In Mozambique, I will be shifting my emphasis to the animal and local community needs," he says. "Because ecotourism does not yet exist in the country, we will be able to start fresh with the stakeholders."

Ecotourism was a staple of the country before civil warfare, and it's only recently that efforts have been initiated to re-establish it. Nuttall says the questions currently facing Mozambique are: "Will the areas that once acted for ecotourism be suitable now for preserving the country's biodiversity?" and "What is the status of this biodiversity given the civil war?"

The long-term goals of re-establishing ecotourism in Mozambique — one of the 10 poorest countries in the world — are to generate funds for conservation, create employment opportunities for local people and provide environmental education for visitors, says Nuttall.

From a political standpoint, environmental conservation is critical as the country recovers from its long civil war, he says. As Mozambique rebuilds and its displaced citizens return to rural areas, forest reserves are being threatened by agriculture and logging. Because ecotourism has traditionally tended to benefit outsiders rather than local people, Nuttall wants to ensure that employment opportunities are created for the people of Mozambique and that they have a voice in all decision making.

"There are difficult moral and ethical issues," he acknowledges. "We have to determine what the

people want."

He hopes to team up with a student from Eduardo Mondlane University in Maputo, Mozambique's capital, to help with his research. While overseas, Nuttall will be without the luxuries of telephones, computers, cars, electricity and running water. He will live in the forest and obtain food and water once a week from a supply truck 10 kilometres away in the village of Panda.

"There are huge questions of language and personal safety," he admits. "I have been warned of the dangers."

The project is being funded by the Canadian International Development Agency's Environmental Capacity Enhancement Project, which is administered by U of G, as well as by Mountain Equipment Co-op and the Body Shop.

Bilingualism pays off in Canadian workforce

by Margaret Boyd

Bilingual Canadians enjoy a two- to three-per-cent income advantage relative to unilingual English-speaking Canadians, a U of G study has found. In Quebec, the advantage is even greater for bilingual men; they enjoy a 10-per-cent advantage in earning power over unilingual anglophone men in the province.

The study by Profs. Louis Christofides and Robert Swidinsky, Economics, looked at data from the 1971, 1981 and 1991 censuses to determine the association between linguistic fluency and earnings. The study looked at annual earnings in Canada as a whole and in Quebec specifically, controlling for factors such as age, experience, education, training, marital and family status, location, self-employment, weeks worked and full- or part-time work status.

It studied four linguistic groups: unilingual anglophones, unilingual francophones, bilingual anglophones and bilingual francophones. (A bilingual francophone has French as the mother tongue and has learned English as a second language.)

"Another of the striking conclusions of the study is that the gap in earnings between unilingual francophones and unilingual anglophones in Canada has narrowed in 20 years," says Christofides. "In terms of long-term significant changes, francophone earnings have surged ahead."

The study also found significant gender factors in both Quebec and Canada. Unlike men, women in Quebec have not gained a statistically significant economic advantage from bilingualism. In addition, unilingual francophone men and women in Canada earned six per cent less than their unilingual anglophone counterparts in 1971. By 1991, the wage differential between unilingual francophone men and unilingual anglophone

men in Canada was non-existent, whereas the economic disadvantage for unilingual francophone women compared with unilingual anglophone women in Canada persisted at two per cent.

By 1991, earnings in Quebec were significantly lower than those of unilingual anglophones in the rest of Canada. In 1971, the gap existed only for francophone Quebecers, but by 1991, anglophone Quebecers' incomes also lagged behind those of unilingual anglophones in the rest of Canada. The decline of anglophone incomes in Quebec accounts to some extent for the size of the earnings advantage of bilingualism.

By 1991, unilingual anglophones in Quebec earned 14 per cent less than unilingual anglophones in the rest of Canada, whereas bilingual anglophones in Quebec earned six per cent less than unilingual anglophones in the rest of Canada. In 1971, unilingual francophones in Quebec earned 9.4 per cent less than unilingual francophones in the rest of Canada; in 1991, they earned 8.6 per cent less.

The study was presented in June at the Learned Society meetings in St. John's, Nfld. The researchers plan to continue their work by studying the significance of the fact that people normally have free choice in deciding which province to live in and whether to become bilingual. □

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RESEARCH AWARDS

Prof. Rodney Merrill, Chemistry and Biochemistry, received \$3,600 from the Canadian Cystic Fibrosis Foundation for "Screening for Potential Peptide-Based Inhibitors by Employing an In Vitro Competitive ELISA."

Agriculture and Agri-Food Canada has provided:

- \$12,000 to Prof. Vince Machado, Horticultural Science, for "Seed Conditioning Technology/Culture to Improve Environmental Stress Tolerance and Economic Quality of Fresh Market Tomatoes";

- \$12,000 to John O'Sullivan, Horticultural Research Institute of Ontario/Simcoe, for "Herbicides for Weed Control in Low-Acreage Crops"; and

- \$18,000 to Alan McKeown, HRIO/Simcoe, for "Studies on Insect Control and Pest Management in Crucifer Crops in Ontario."

Bell Canada awarded \$35,000 for two years to Prof. Grant Edwards, Engineering, for "In Situ Measurement of Hydrocarbon Fluxes during Diesel Fuel-Contaminated Soil Remediation, Phase 2."

Dairy Farmers of Canada provided \$35,000 to Prof. Brian McBride, Animal and Poultry Science, for "Enrichment of Milk and Dairy Products in Omega-3 Fatty Acid" and \$20,000 to Prof. Ken Leslie, Population Medicine, for "An Evaluation of Strategies to Enhance Udder Health and Milk Quality for Canadian Dairy Producers."

The International Centre for Tropical Agriculture awarded \$24,000 US to Profs. David Waltner-Toews, Population Medicine, and Sally Humphries, Sociology and Anthropology, for "A Case Study of Agroecosystem Health in Honduras."

Environment Canada awarded \$20,000 to Prof. David Swayne, Computing and Information Science, for "Acid Rain Assessment Modelling in RAISON." He also received \$10,000 from the Metropolitan Toronto and Region Conservation Authority for "A User-Friendly and Knowledge-Based Tool for the Application of Non-Point Source Modelling to Support Watershed Management Plan Preparation."

Prof. Bill Beamish, Zoology, was awarded \$91,130 by the

Great Lakes Fishery Commission for year three of his study on the "Ecology of Recruitment in Sea Lamprey."

ISG Technologies Inc. and NSERC's industry scholarship program awarded \$35,000 for two years to Prof. Otman Basir, Engineering, for student research on the project "Clinical Evaluation of Registration Methods."

The Institute for Space and Terrestrial Science has provided \$56,250 to Prof. Mike Dixon, Horticultural Science, for his work on "Dense Plant Canopies in a Sealed Environment," \$33,750 to Prof. Richard Protz, Land Resource Science, for the project "Ground-Based Radiometer for Satellite Monitoring of Water Resources" and \$55,413 to Prof. for "Radar Imagery for an Agricultural Monitoring System."

Japan's KIEIKAI Foundation awarded \$15,000 over three years to Prof. Yoshinori Mine, Food Science, to study "Value-Added Utilization of Hen's IgY for Passive Immunization." This project also received \$21,000 from Q.P. Corporation.

Prof. Terry Gillespie, Land Resource Science, has received \$17,366 from Lambton Industrial Society for a "Solid-Phase Bioreactor Study."

The Ontario Ministry of Education and Training has provided the following support in the Department of Horticultural Science:

- \$3,000 to Prof. Bernard Grodzinski for "Mapping of Plasmodesmata in Leaves of C3 and C4 Plants";

- \$7,000 to Prof. John Proctor for "Production Protocols for Ginseng"; and

- \$2,400 to Prof. Alan Sullivan for "Increasing Environmental Adaptation in New Strawberry Cultivars."

NATO has provided a collaborative research grant of \$6,562 to Prof. Derek Bewley, Botany, for the project "Regulation of Expression of Endo-B-Mannanase in Legume Seeds."

Prof. Laima Kott, Crop Science, was awarded \$131,220 by

Novartis Seeds AG for "Transformation of *Brassica napus*."

The Ontario Ministry of Natural Resources (OMNR) awarded \$7,200 to Prof. David Noakes, Zoology, for PhD student Trevor Friesen's work on "Growth and Mortality of Larval and Juvenile Smallmouth."

Prof. Clarence Swanton, Crop Science, received \$86,850 from OMNR/ARIO for "An Ecophysiological Study of Competition Between Young Jack Pines and Various Weed Species for Nitrogen and Moisture."

The Ontario Beekeepers' Association awarded \$10,000 to Prof. Peter Kevan, Environmental Biology, for the project "Overwintering Bees."

The Ontario Soybean Growers' Marketing has provided Prof. David Hume, Crop Science, with \$20,000 for "Increasing Soybean Nitrogen Fixation."

Prof. Wayne Martin, Population Medicine, received \$120,000 from Prove/Elanco for a dairy health management faculty position.

OVC's Pet Trust Fund has provided the following support:

- \$10,700 to Prof. Tony Abrams-Ogg, Clinical Studies, for "The Mechanisms by Which Interleukin II Causes Plasma Volume Expansion in Dogs" and \$4,188 for "The Mechanisms of the Volume Expansion Effect of Recombinant Human Interleukin II Therapy in Dogs";

- \$7,240 to Prof. Brenda Bonnett, Population Medicine, for "Osteoarthritis in Dogs: A Multicentre, Randomized, Controlled, Double-Blind, Clinical Trial of Two Herbal Therapies, Acetylsalicylic Acid and Placebo";

- \$900 to Prof. Doris Dyson, Clinical Studies, for a "Comparison of Systolic Blood Pressure Measurements in Anesthetized Dogs Using Pulse Oximetry, Doppler Indirect and Direct Methods";

- \$6,007 to Prof. Pat Gentry, Biomedical Sciences, for a "Pilot Study to Assess Plasma Protein Values as Early Mark-

ers of Inflammation in Domestic Cats";

- \$2,500 to Prof. Anne Sylvestre, Clinical Studies, for "Intraoperative Monitoring of the Facial Nerve During Total Ear Canal Ablations in the Dog" and \$5,000 for "The Efficacy of Surgical Fenestration and Chemonucleolysis in Reducing the Recurrence of Thoracolumbar Intervertebral Disc Extrusions: A Prospective Randomized, Controlled Study";

- \$2,000 to Kristine Torske, Clinical Studies, for "Oxymorphone Blood Levels Determined During a Study on the Cardiovascular Effects of Epidural Bupivacaine/Oxymorphone During Halothane Anesthesia in Dogs: Comparison with an Equivalent Dose of Halothane Alone"; and

- \$2,000 to Prof. Julie Yager, Pathobiology, for "Characterization of Two Newly Identified Skin Diseases in Ontario Cats."

In the Department of Family Studies, the Regional Municipality of Hamilton-Wentworth has provided \$4,800 to Prof. Stephanie Ounpuu for the project "Lower-Fat Eating Behavior" and \$3,000 to Prof. Judy Sheeshka for a prenatal nutrition program.

The Scottish Rite Charitable Foundation of Canada awarded \$15,500 to Prof. Julie Conquer, Human Biology and Nutritional Sciences, for an "Evaluation of Essential Omega-3 and Omega-6 Fatty Acid Status in Patients with Alzheimer's Disease."

Prof. John Holt, Mathematics and Statistics, received \$3,500 from Simon Fraser University and the Eastern Indonesia University Development Program to support research fellow Gatot Ihamto.

Prof. Kris Inwood, Economics, was awarded \$10,000 by the Social Sciences and Humanities Research Council (SSHRC) for the 1997 Canadian Conference on Economic History.

Stelco Inc. awarded \$22,533 to Profs. Les Evans and Eric Beauchamp, Land Resource Science, for Phase 3 of the project "Agriculture Utilization of Furnace Slag: Benefits, Potential Environmental Problems and Solutions to Those Problems."

The United States Department of Agriculture awarded \$4,000 US to Prof. John Barta, Pathology, for his work on "Immunological Variability of Avian Coccidia."

Prof. Sid Gilbert, Sociology and Anthropology, received \$8,500 from the University of British Columbia and SSHRC to study "The Link Between Educational Provision, Processes and Outcomes."

World Wildlife Fund (Canada) awarded \$10,000 to Prof. Gerald Mackie, Zoology, for an "Assessment of the Current Status of Rare Species of Freshwater Mussels in Southern Ontario."

1211013 Ontario Inc. awarded \$1,000 to Prof. Jeff Thomason, Biomedical Sciences, for "The Hoof Hardener Testing Project." □

GRAD NEWS

The final examination of PhD candidate Marco Schito, Pathobiology, is Sept. 11. The presentation is at 9 a.m. in Room 2152 of OVC, followed by the defence in Room 1106. The thesis is "Host Responses Associated with *Eimeria Papillata* Infections in Mice." The adviser is Prof. John Barta.

The final examination of John VanLeeuwen, a PhD candidate in the Department of Population Medicine, is Sept. 15 at 1:30 p.m. in Room 1715 of OVC. The thesis is "Describing, Applying and Testing Models and Indicators of Human Health in Agroecosystems: Finding the Balance." His adviser is Prof. David Waltner-Toews.

The final examination of Daniel Wilson, a PhD candidate in the Department of Human Biology and Nutritional Sciences, is Sept. 19 at 1 p.m. in Room 336 of the Animal Science and Nutrition Building. The thesis is "The Effects of Zinc on the Multi-Catalytic Activities of Acetylcholinesterase and Butyrylcholinesterase." The adviser is Prof. William Betger.

The final examination of Clara Lopez Amaya, a PhD candidate in the Department of Food Science, is Sept. 29 at 9:30 a.m. in the food science lecture hall. The thesis is "Interaction of *Candida rugosa* Lipase with DPPC Liposomes." The adviser is Prof. Alex Marangoni. □

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Community

NOTICES

Pet Trust says thanks

OVC will hold its second annual Pet Trust Practitioners' Appreciation Day Sept. 27 in the Lifetime Learning Centre. Veterinarians from across Ontario who support OVC's Pet Trust have been invited to campus for the day for a series of free talks. This year's topics are "Endocrinology," "The Trauma Patient," "Respiratory Problems" and "Urinary Tract Problems." The day is sponsored by Hill's Pet Nutrition Canada. For more information, call Martha Leibbrandt at Ext. 4414.

Music by Brahms

The Department of Music and the Macdonald Stewart Art Centre present violinist Jacques Israelievitch and pianist Stéphane Lemelin performing works by Brahms Sept. 19 at 8 p.m. at the art centre. Tickets are \$10 general, \$6 for students and seniors, and are available at the door or from the Department of Music, Ext. 2991.

Take back the night

Guelph's annual Take Back the Night March is Sept. 18, beginning at 6:30 p.m. at Marianne's Park. All women and children are welcome to march against violence towards women. For more information, call 823-5806 or 824-5150.

Stickers expire

All U of G employees are reminded that the stickers on their ID cards became void Sept. 1. New validation stickers for the current year are available from department secretaries or administrative assistants.

No Sunday coverage

Computing Centre Services in the basement of the Animal Science and Nutrition Building is no longer providing coverage on Sundays. Computer systems will continue to be provided on an unattended basis.

CBS alumni to meet

The College of Biological Science Alumni Association will hold its next board of directors meeting Sept. 17 at 7 p.m. at Alumni House. All students, alumni, faculty and staff are welcome to attend. For more information, call Rob Guthrie at 821-9249 or send e-mail to rguthrie@uoguelph.ca.

Hawk workshop

The Arboretum presents a hawk workshop with interpretive naturalist Chris Earley Sept. 25 and Oct. 2 at 7 p.m. The workshop will include a variety of hands-on activities designed to teach about hawk plumage, body shape, foraging techniques, flight patterns and migration times. Cost is \$39. Register by Sept. 18 at Ext. 4110.

Third Age Learning

Third Age Learning-Guelph launches its 20th season of lectures for retired people Sept. 17 at the Arboretum Centre. In the morning series beginning at 10 a.m., various speakers will look at emerging trends as we near the 21st century. Prof. Chandler Kirwin, Fine Art, will lead the af-

temoon series at 1:30 p.m., exploring "How I Came to Be: A Personal View of the Visual Arts Since the Renaissance." Cost of each series is \$19. For more details, call Lyle Plumb at 763-5263 or Dianne Scobie at 822-6049.

Novelist to speak

The Department of English presents a reading by Malaysian novelist and dramatist K.S. Maniam Sept. 22. The in-class lecture begins at 10:30 a.m. in Room 235 of the MacKinnon Building and is open to all members of the University and the general public. Author of *The Return*, Maniam is coming to Canada to participate in a conference on "Competing Realities: 50 Years of South Asian Literature" at the University of Toronto.

Deadline nears

The deadline to apply for international field studies grants is Sept. 26. The grants are open to undergraduate students who have completed five full academic semesters or students pursuing a master's or PhD. The funding is designed to complement study with a global and cross-cultural experience. Application forms are available from the Centre for International Programs on the second floor of Day Hall.

Plant sale

The Arboretum Auxiliary will hold its fifth annual plant sale Sept. 13 at the R.J. Hilton Centre. It runs from 9 a.m. to 3 p.m. rain or shine. The sale will include 400 varieties of native and exotic perennials, rock garden plants, alpiners, native wildflowers, ferns and grasses, as well as 100 varieties of trees, shrubs and vines. A silent auction of more than 50 rare and unusual specimens will run from 9 to 11 a.m.

Wildflower meeting

The Canadian Wildflower Society will hold its annual general meeting Sept. 28 at 10 a.m. at the Arboretum Centre. Guest speaker Kim Delaney will examine "Restoration in Southern Ontario." Everyone is welcome.

Polymathic Society

The Guelph University Polymathic Society for students, alumni, faculty and staff interested in writing, reading, photography and exploring ideas will hold its inaugural meeting Sept. 23 at 7 p.m. in Room 273 of the University Centre. Membership is \$4 per semester. For more information call Kathryn Boys at Ext. 4408 or Nicola Gordon at Ext. 2710 or send e-mail to James Gordon at gordonj@uoguelph.ca.

Spirit walk

Historical Canadian characters will come to life during a "Spirit Walk" Sept. 28 at Woodlawn Cemetery. (Rain date is Oct. 5). A joint venture of Guelph Museums, Royal City Musical Productions Inc. and Woodlawn Cemetery, the walk takes participants on a guided tour of the cemetery, where they will meet the "spirits" of some of the people who reside there and learn about their contri-

butions to Guelph's past. Tours leave from the mausoleum at 1:30, 2, 2:30 and 3 p.m. Admission is \$6 for adults, \$4 for students, free for children 10 and under.

Physics seminar

Prof. Innes MacKenzie, Physics, discusses "Analysis of Structures Using X-Ray Albedos, A Spin-Off From SN," Sept. 16 at 4 p.m. in Room 113 of the MacNaughton Building.

Scottish dance

Come learn a jig, reel or strathspey with Guelph Scottish Country Dancers Monday nights starting Sept. 15 at 7:30 p.m. at the former St. Joseph's School of Nursing, 70 Westmount Rd. Everyone is welcome.

Gallery concerts

Wellington County Museum and Archives will host a series of Sunday afternoon concerts beginning Sept. 28 at 2 p.m. with a program featuring piano, violin and clarinet, along with soprano Lorraine Drew-Brook. Tickets are \$4 for adults, \$3 for seniors and \$1 for those under 16.

Biologist to speak

University of Massachusetts biologist Lynn Margulis discusses "Symbiogenesis: Bacterial Consortia and the Origins of Eukaryotes" Sept. 22 at 12:30 p.m. in Room 1714 of the OVC Learning Centre. The talk is sponsored by the College of Biological Science.

Big Brother Month

September is Big Brother Month, and a recruitment drive is under way. More than 40 boys are on the waiting list for a big brother. If you're interested, attend a training session Sept. 22 at 7 p.m. at the Big Brother Association of Guelph and Wellington County, 123 Woolwich St. For more information, call 824-5154.

Restaurant tour

The newly launched Guelph Community Post-Partum Support Network for women and their families will hold a fund-raising walking tour of downtown Guelph restaurants Sept. 20 from 11:30 a.m. to 4:30 p.m. Two different tours are available; cost is \$25. For tickets, call 836-3453 or 836-6144. For more information, visit the Web site <http://www.folland.com/ppd/tour>.

Puppet shows set

Puppets Elora presents *The Frog Prince*, *The Selfish Giant* and *The Last Dragon* Sept. 28 at 6:30 p.m. at the Arboretum Centre. The shows are suitable for children aged four to 12. Tickets are \$5.

Art and nature

The Spirit Valley Experience, a festival of the arts and nature in Rockwood, is Sept. 13 from 11 a.m. to 11 p.m. (Rain date is Sept. 14.) This year's lineup includes the Subtonic Monks, Theatre Gargantua, James Gordon and the Kanata Native Dancers. The festival will also feature a sculpture show and displays by artists, artisans and healing arts practitioners.

Jazz legend Peter Appleyard will perform at a special fund-raising dinner Sept. 12 at the Mill Ruins in the Conservation Area. (Rain location is the Old Town Hall.) Tickets range from \$10 to \$15 and are available at the Bookshelf or from the Spirit Valley box office at 856-9999.

Terry Fox Run

The 17th annual Guelph Terry Fox Run for cancer research is Sept. 14. Members of the community are invited to support this non-competitive one- to 10-kilometre event by walking, jogging, wheeling, biking or running at Royal City Park between 10 a.m. and 2 p.m. (starting point is at the corner of Edinburgh Road and Wellington Street). Registration forms are available at all branches of the TD Bank in Guelph.

Chemist visits

The Department of Chemistry and Biochemistry presents Jean Lessard of Sherbrooke University discussing "Organic Electrochemistry: Mechanistic and Synthetic Aspects" Sept. 16 at 4 p.m. in Room 222 of the MacNaughton Building. Anyone wishing to meet with Lessard should call Prof. Dev Mangroo at Ext. 3432.

Multicultural celebration

The Guelph and District Multicultural Centre is celebrating Canada's Year of Asia Pacific and other cultures at a festival Sept. 13 and 14 at Riverside Park. The event will feature food, music, dance and children's activities. Opening ceremonies begin with a lion dance Saturday at 11 a.m.

AIDS campaign

The annual Guelph and Wellington County AIDS awareness campaign runs Sept. 20 to Oct. 5. Events include resource fairs, youth outreach, mall displays, educational workshops, an AIDS Walk, a women's coffee house and a dance. The program begins with an open house Sept. 23 from 4 to 7 p.m. at the AIDS Committee of Guelph and Wellington County, 85 Norfolk St., Suite 204. The fourth annual AIDS walk is Sept. 28 and begins at Riverside

Park. For more information or to register for the walk, call 763-2255.

Benefit dinner

The Guelph Civic Museum marks its 30th anniversary with a benefit dinner Sept. 29 at 5 p.m. at Georgian Creeds Restaurant, 19 Douglas St. Tickets are \$100 (about \$70 is tax-deductible) and are available at the museum. Call 836-1221 for information.

Single parents gather

The YMCA-YWCA of Guelph is holding its fifth annual single parents' conference Sept. 27 at the Kensington 'Y' Centre. The day features workshops on topics such as healthy relationships, communication skills, parenting and nutrition. Cost is \$10 and includes child care. Registration deadline is Sept. 19. For information, call Anne Logan-Elliott at 824-5150.

Something's brewing

More than 30 breweries will offer a total of 150 different types of beer to be sampled by the hospitality industry and the public at the Gryphon Centre Sept. 18 to 20. The second annual brewing festival also features judging, culinary exhibits, seminars and brewing tips. The show runs Sept. 18 from 7 a.m. to noon, Sept. 19 from 4 to 11 p.m. and Sept. 20 from noon to 9 p.m. For more details, visit the Web site <http://www.sentex.net/wellington>.

Rhodes deadline

The internal deadline to apply for a Rhodes Scholarship is Sept. 26. Applications must be submitted to the Senate Office on Level 4 of the University Centre. Application forms are available from Peter Landoni's office in Registrarial Services on UC Level 3.

Arkell season begins

The Arkell Schoolhouse Gallery kicks off its 1997/98 concert season Sept. 27 at 8 p.m. with a harp, flute and piano trio performing Schubert and Brahms as well as classical and traditional Celtic songs. Tickets are \$15 and can be reserved by calling 763-7528.

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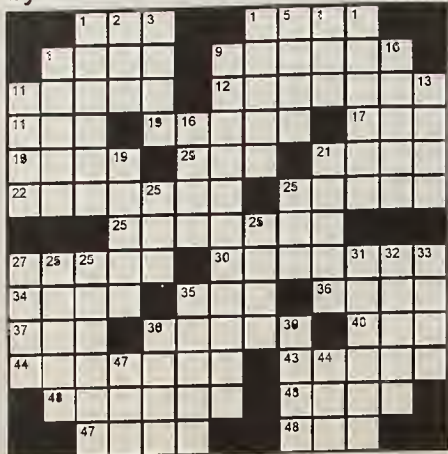


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ACROSS

1. Taro paste
4. Fused refuse
8. Sir Lancelot's nephew
9. Forest clearings
11. Sweet and soft in music
12. Item-by-item report
14. Pointed tool
15. Swelling
17. Cease existing
18. Hurried
20. Ribbed fabric
21. Skillful
22. Wordbook
24. Examinations
25. Variety of tobacco
27. Not inebriated
30. Leave undone
34. Love god
35. Spanish hero
36. Confident
37. Flow back
38. Clean between teeth
40. Third letter
41. Choice of words
43. Victory symbols
45. Bull constellation
46. Ontario neighbor

DOWN

1. Thumb
2. Grampus
3. Understanding words
4. Relax
5. Actress Turner
6. Do some math
7. Crystal-lined rock cavities
8. Hunting knife
9. Scallions
10. "Gulliver's Travels" author
11. Actress Arlene
13. Clears as profit
16. Release hold of
19. Cuts into cubes
21. Wooded
23. Elevator
24. Children's game
26. Prismatic colors
27. Plant
28. Girdle the globe
29. Lynx
31. Father of geometry
32. Thick liqueur
33. Golfer's needs
35. Archer's target
38. Granular snow
39. Drove at high speed
42. New Zealand honeyeater
44. Actress Meyers



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Yard sale (carpet, telephone, B&W TV, cappuccino maker, etc.), Sept. 13, 112 Paisley St.

1989 Plymouth Retiant, four doors, excellent condition, 116,000 km, 766-1464 after 5 p.m.

Five-and-a-half treed acres in Puslinch, with four-bedroom, two-bathroom house, 10 minutes from campus, 837-1594.

1988 Toyota Tercel five-door hatchback, automatic, air conditioning; toaster oven; electric iron; free-standing fan; 1.5-Kw heater; four-cup coffee maker; queen-size futon mattress, two pairs of downhill skis and boots, 200-gallon galvanized steel tub, 824-2104.

386 PC with NEC MultiSync-3D monitor, Ext. 3548.

286 computer, 40-meg hard drive, Voltron VGA monitor with 16-bit card, Logitech serial mouse, 101 keyboard, 5 1/4- and 3 1/2-inch high-density disk drives, Parkard Bell chrome monitor, Robert, 837-1698 evenings.

Fall library hours set

During the fall semester, library hours and services will operate on the following schedule. From Sept. 2 to Nov. 30, the McLaughlin Library and veterinary science library will be open from 8:30 a.m. to midnight Monday to Friday and from 10 a.m. to midnight on weekends and holidays. From Dec. 1 to 11, McLaughlin only will be open for extended hours as follows: 8:30 a.m. to 1:15 a.m. Monday to Friday and 10 a.m. to 1:15 a.m. on weekends. Throughout this period, the veterinary science library will be open from 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on weekends. On Dec. 12, both libraries will be open from 8:30 a.m. to midnight. For reference service hours throughout the semester, call Ext. 3617. □

FOR SALE

Firewood, seasoned oak, cut and split to order, 824-6508 or Ext. 6679.

Three-bedroom bungalow on quiet street near University, 2,150 square feet, three fireplaces, two skylights, air conditioning, security system, large family room, 824-2038.

Five-piece luggage set, small microwave, cat carrier and cat accessories, downhill ski boots, ironing board and iron, closet rack, kettle, Brita water jug, various kitchen utensils and appliances, various home hardware, 836-5484.

Rattan table with round glass top and four chairs, Ext. 6580.

Good-quality firewood, dry, cut and split hardwood, 856-9719 evenings or lev@albedo.net.

Antiques: pine prie-dieu, pine rocking chair with rope seat, wooden ironing board, Second World War modesty screen, large wooden lab table from old School of Engineering (drawers contain names of students in the 1940s), 821-1795 after 6 p.m.

Bedroom doors, Rose, Ext. 2199 or 856-9423 after 5 p.m.

Modern eight-foot off-white sofa, 836-0125 after 5 p.m.

Stainless steel animal cages, cage racks and wooden "animal playpen" on wheels, John, Ext. 3816 or sgood@micro.uoguelph.ca.

386ST Packard Bell computer with modem and CD-ROM, perfect for wordprocessing, e-mail and games, Sarah, 767-6703.

1994 Toyota Tercel DX, five-speed, two doors, AM/FM stereo, sunroof, original owner, 83,000 km, certified, Lalit, Ext. 3696 or 823-9782.

1992 Olds Cutlass Supreme, four doors, air, tilt, cruise, PW, PD, original owner, all highway-driven; maple dining table and six chairs; steel desk, black with brown arborite top, 36" X 72", 763-1759 evenings.

Used tub with accessories, excellent condition, Chris, 822-0109.

FOR SALE

Bright four-bedroom house on Palmer Street across from St. George's Park, fireplace, lots of oak details, large lot, quiet neighborhood, available in October, 763-4425.

Chocotale Labrador retriever puppies, CKC-registered, born Aug. 9, 519-396-3120 (Kincardine).

Beige fabric room dividers; baby stroller; nine-drawer dresser with mirror and matching five-drawer dresser, dark wood, 821-1879.

FOR RENT

Two-bedroom penthouse apartment in historical stone house near Exhibition Park, quiet neighborhood, perfect for professional couple, \$899 a month, 824-1773.

Clean, bright furnished house with private kitchenette, laundry, cable TV, on bus route, no smoking, no pets, 763-1236 or Ext. 4157.

Furnished four-bedroom house, available mid-September to December 1997, on bus route, 25-minute walk to University, no pets, would prefer mature persons and no children under 13, \$850 a month plus utilities, send e-mail to lmuthari@micro.uoguelph.ca.

Furnished basement apartment, suitable for non-smoking single student or couple, fully equipped eat-in kitchen, separate entrance, five-minute walk to campus, \$550 a month inclusive, 824-5195.

WANTED

Au pair position for 20-year-old German woman from former GDR, responsible, experienced with children and housework, Ext. 3469, 821-6892 or feidin@ess.uoguelph.ca.

Set of basic drums, 763-1759.

Four-drawer legal-size filing cabinet, Diana, Ext. 2382.

386 computer for wordprocessing, Ext. 3463 or 763-2944.

Four identical ceiling Tiffany lamps, 821-1795 after 6 p.m.

Dog lover with vehicle and fenced yard but no dog willing to take care of other people's dogs for short periods. Cobi, Ext. 6373, 836-8086 or send e-mail to cdemmers@uoguelph.ca.

Legal-size filing cabinet in good condition, black preferred, Christine, Ext. 3135.

FOR SALE

Four-bedroom house close to University and schools on tree-lined cul-de-sac and green belt. \$179,000. Call sales representative Brian Rothwell, Royal Le Page Vantage Realty Ltd., 823-1124.



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October 3-4



IN THIS ISSUE

- 2 **SENATE BEGINS** its first meeting of the academic year with a look at the goals Guelph and other Ontario universities will be focusing on in the next few years.
- 3 **IT'S KICKOFF TIME** for the 1997 campus United Way appeal as organizers set their sights on a final touchdown goal of \$186,400 towards the local campaign.
- 3 **CONVOCATION** honors go to an exercise physiologist, a historian of indigenous peoples and a family therapist Oct. 6 to 9.
- 4 **RENOWNED** physicist Ursula Franklin offers some insights into why we should care about university research.
- 5 **GUELPH** continues to attract outstanding women in science and engineering.



MUSIC HAS CHARMS TO SOOTHE A FRIENDLY BEAST...

Like this Dalmatian taking time out from OVC's second annual walkalong Sept. 21 to appreciate the sax appeal of a roving musician. The dog was one of dozens that turned out with their human pals to help raise funds for the Veterinary Teaching Hospital's small-animal intensive-care unit. Participants walked either five or 10 kilometres around campus, raising close to \$4,000 in donations and pledges for the Small-Animal Clinic.

PHOTO BY TRINA KOSTER

Grape Expectations

Transgenic grape developed by U of G, winery scientists could revolutionize Canadian wine industry

A HARDY NEW GRAPE planted last week at Château des Charmes Wines Ltd. in St. David's by Ontario Premier Mike Harris and winemaker Paul Bosc could revolutionize the grape and wine industry in Canada by providing a "winter coat" for the temperature-sensitive fruit.

Developed by Prof. Bryan McKersie, Crop Science, in conjunction with Château des Charmes research scientist John Parosch, the vinifera (wine-making) grape contains a winter-hardy gene to withstand cold temperatures. Many vinifera varieties have difficulty surviving harsh winters, says McKersie, but if the range of survival can be boosted by a few degrees, the potential economic benefits are enormous. This new transgenic technique could eventually be applied to almost all perennial fruit crops and winter annual plants growing in a cold climate.

"It is the first time in the world that a transgenic grape has been put into the field," says McKersie. "After extensive testing is completed, this Agriculture and Agri-Food Canada-controlled experiment could lead to the development of new commercial varieties."

The grape was created by inserting naturally occurring genes for cold tolerance into single grape plant cells. The gene introduced into the grape was isolated from a wild cousin of broccoli called *Arabidopsis thaliana*. This gene produces the enzyme superoxide dismutase, which detoxifies the toxic metabolites of oxygen called oxygen-free radicals, which cause many

of the damaging reactions associated with stress. During freezing and drought, these molecules attack plant cells and cause decay. Cold tolerance depends on how well a plant's proteins can detoxify the oxygen molecules.

The gene was inserted into single grape plant cells via a common soil bacteria, *Agrobacterium tumefaciens*, which was genetically programmed to deliver the cold-tolerance genes. The transgenic grape cells grew in an incubator, a growth chamber and the Guelph Transgenic Plant Research

Complex before being planted at Château des Charmes.

The process used in creating the transgenic grape was originally developed by McKersie to genetically engineer cold tolerance into alfalfa. In research sponsored by the Ontario Ministry of Agriculture, Food and Rural Affairs, extensive laboratory and field evaluation confirmed that the superoxide dismutase gene improved the survival of the plants. Based on these results, commercial varieties of alfalfa are now under development

for use in the dairy and beef industries in Ontario.

Seventy-five of the grapevines will be grown under strict quarantine at Château des Charmes. Testing will be carried out for five years to determine if one of the genetically modified grape plants can be identified as more winter hardy.

The vinifera grape project is supported by the Industrial Research Assistance Program of the National Research Council.

BY MARGARET BOYD

Toxicology Draws International Audience

Course is important first step in the development of graduate-level continuing education

JUDGING FROM THE EXIT COMMENTS at U of G's first-ever graduate-level continuing education course in toxicology, it's here to stay.

"Advanced Principles in Toxicology," delivered this spring, received rave reviews such as: "Excellent; one of the best short courses I've ever attended; demonstrated the importance of technical knowledge and its implication for regulatory process; a very important course."

The intensive, advanced survey course drew students from as far afield as Latin America and Slovenia, in addition to Canada and the United States. Len Ritter, executive director of the Canadian Network of Toxicology Centres (CNTC) located on campus, and Prof. Keith Solomon, director of the Centre for Toxicology, organized the academic side of the 10-day course. They sought to meet the learning needs of open learners in industry, government and education, as well as graduate students.

"The goal of the course design and content was to provide an effective

Continued on page 2

Hey, Look Us Over!

At Guelph's new design and editorial direction reflect richness, diversity of U of G

AT GUELPH IS MARKING THE START of a new academic year with more than just a new look. As you read the first issue featuring our new design, you will also notice a new editorial direction—a direction that will ensure *At Guelph* covers the issues, the people, the ideas and the achievements that reflect the richness and diversity of the University of Guelph.

During my first six months as director of communications and public affairs, I met with many *At Guelph* readers and received some valuable advice on how the publication might better reflect the diverse interests of the campus community. As the concept for the new design and editorial direction developed, I consulted broadly with *At Guelph's* editorial

advisory board, the Executive Group, VPAC and the newly formed Campus Communicators Network. I have been overwhelmingly gratified by the support I have received.

Each issue of the new *At Guelph* will feature several standard columns. "News in Brief," "People" and "Research" will give at-a-glance coverage of campus news and newsmakers. Our alternating "Senate/Board of Governors Report" will give quick highlights of the issues facing U of G's governance. "Insight" will be a broad forum, giving members of the University community an opportunity to debate issues and ideas. Sometimes, "Insight" will record "what was said" by prominent visitors to campus. (Many thanks to Prof. Janet Wood,

Microbiology, for providing our first "Insight" piece, "Why Care About Research," on page 4). And finally, "Profiles" will focus on our greatest strength—the faculty, staff, students and alumni who are the essence of the University of Guelph.

We hope you will enjoy reading *At Guelph* and this issue's feature stories on Guelph's strengths in attracting outstanding women in science and engineering. But even more important, we hope you will contribute to your University's paper by writing an "Insight" column or a letter or simply by calling us with story ideas. We welcome your comments and suggestions.

DARLENE FRAMPTON
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SENATE REPORT

First fall meeting looks at focus of Ontario universities

At the first fall meeting of Senate Sept. 9, president Mordechai Rozanski outlined several objectives that Guelph and other Ontario universities will focus on over the next several years.

Provincially, these involve urging the government to increase funding to bring Ontario universities to at least the national average in per capita funding, pressing for more support for research and research infrastructure,

and dealing with the issue of student aid and debt load. At U of G, these objectives will be complemented by the development of a strategy for faculty/staff renewal in anticipation of the large number of faculty who will begin retiring after 2002/3 and the double cohort of high school students who will enter university that same year, and by planning for a major campaign in support of Guelph's academic goals.

SPECIAL MEETING

A special meeting of Senate will be held Sept. 30 to discuss the proposed human rights policy. The meeting is at 6:30 p.m. in Room 113 of the MacNaughton Building. The draft report was included in *At Guelph* April 23. For copies, call Ext. 3000.

ENROLMENT GOOD NEWS

Prof. Iain Campbell, provost and vice-president (academic), informed Senate that fall enrolment figures are good news.

As of Sept. 8, the total number of full-time first-year undergraduate students registered was 3,221, an increase of 34 over last year. This means that for the second year in a row, U of G has succeeded in its goal to maintain its first-year undergraduate enrolment in eight targeted degree programs at a level at least 400 full-time students higher than in the 1995/96 base year. This year's enrolment in these programs is actually 425 students higher, 25 more than the goal for these programs. Final figures will be determined after Guelph's reporting date to the Ministry of Education and Training Nov. 1.

This healthy enrolment trend is also evident in campus residences, where 75 expanded spaces have been created to meet the demand.

Numbers don't tell the whole story, though. For U of G, attracting quality students has become just as much an institutional priority as the total numbers, and this year's aver-

age cut-off marks were actually slightly higher — about 80 per cent — than in 1996. Twenty-five of Guelph's 35 programs posted equal or higher cut-offs than last year. A particularly rewarding aspect of this year's enrolment picture is that a substantial majority of entering students made Guelph their first choice, Campbell said.

SUBCOMMITTEE FORMED

Senate learned of the establishment of an ad-hoc subcommittee on accessibility and affordability of student education. The subcommittee is in response to concerns raised by student senators at the March meeting of Senate about how increases in tuition are affecting students' financial ability to attend university.

Prof. Sid Gilbert, Sociology and Anthropology, will chair the committee. Members are FACS graduate student Judy Paisley-McLagen and Prof. Ian McMillan, Animal and Poultry Science. Campbell said that although the committee is small, it will make use of students, faculty and staff as resource people.

NEW-FACULTY GRANTS NEEDED

During Senate's question-and-answer period, Prof. William Christian, Political Studies, brought to Senate's attention the difficulty that young faculty face because of the elimination of grants to new faculty.

Campbell said cuts to funding agencies at all levels, including the

Social Sciences and Humanities Research Council and the Natural Sciences and Engineering Research Council, have seriously eroded these grants. Rozanski acknowledged that this is an important issue and said U of G may be able to address this as part of faculty renewal in the pending campaign.

COMMITTEE BUSINESS

Senate approved the following committee business. Minutes of the meeting will be posted on Senate's soon-to-be-established Web site after they have been approved by Senate at its next regular meeting Oct. 14.

Bylaws and Membership

• Senate approved the slate of faculty members on the selection committee for the associate dean of graduate studies. They are Profs. Margaret Priest, Fine Art; Doug Joy, Engineering; Joan Norris, Family Studies; and Kiyoko Miyashita, Geography.

• Senate approved one change to its bylaws and referred back another. The rules of order of Senate will be expanded to deal with how letters of thanks and other written material are communicated to Senate. A motion reaffirming the procedure for obtaining membership for the president's review/selection committee was referred back to committee. Senate supported a motion by senator Paisley-McLagen that this matter be discussed further.

Continued on page 6

Toxicology Course Meets Goals

Continued from page 1

way to bring participants up to current levels of understanding of toxicology as it applies to both the human health and environmental areas," says Ritter. "Judging from the participants' comments and evaluations, it appears that we were successful at meeting their learning objectives."

One of those satisfied students was John Petralis, a U of G graduate student who enrolled in the course as part of his PhD in toxicology.

"The lectures were really high-quality and would be most appropriate for students who have little knowledge of toxicology," he says. "The intensity of the course is great for getting yourself up to speed, especially for students starting a graduate program in toxicology or for anyone in chemistry, biochemistry or nutrition."

As with any open learning course, a close partnership was established to ensure that an attractive academic curriculum was neatly packaged. The Office of Open Learning (OOL) facilitated a plan to bring in students and professionals from far and wide. "This program marks an important

first step towards further development of graduate-level open learning programs that serve both local and international audiences," says Virginia Gray, director of open learning.

Formal lectures were combined with practical exercises. The interdisciplinary curriculum included instructors from CNTC and the departments of Environmental Biology, Chemistry and Biochemistry, Pathobiology, Zoology and Land Resource Science. A retired Health Canada practitioner and a University of Toronto teaching assistant rounded out the instructor team.

OOL co-ordinated and marketed the course, targeting people working or studying in fields related to toxicology.

Given the success of this first offering and a demand for this type of professional development, plans are under way to offer the program again next spring. Participants should have a bachelor's or master's degree with course work in statistics, chemistry and biology. For more information, call Ext. 5000.

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**UNIVERSITY
of GUELPH**

CONVOCATION HONORS
U of G will bestow two honorary degrees and a University professor emeritus during fall convocation Oct. 6 to 9 in War Memorial Hall. Some 550 students will graduate at four ceremonies.

Bengt Saltin, head of the Copenhagen Muscle Research Centre, will receive an honorary doctorate of science Oct. 6 at the 7:30 p.m. ceremony for graduates of CBS and CPES. Olive

Dickson, professor emerita at the University of Alberta, will receive an honorary doctorate of letters Oct. 7 at the 7:30 p.m. ceremony for graduates of the College of Social Science. Retired family studies professor Claude Guldner, founding director of the Couple and Family Therapy Centre, will be named University professor emeritus Oct. 8 at the 7:30 p.m. ceremony for graduates of FACS, OVC and OAC. During this ceremony, U of G will award its first PhD in rural studies.

Convocation ceremonies wrap up Oct. 9 at 7:30 p.m. with Prof. Jay Newman, Philosophy, addressing graduates of the College of Arts.

PATHOBIOLOGY CHAIR NAMED

Prof. Patricia Shewen, Pathobiology, has become the first woman to chair a department at the Ontario Veterinary College. A graduate of U of G and a faculty member since 1982, Shewen began a five-year term Sept. 1. Watch for a profile of her in an upcoming issue of *At Guelph*.

B OF G SEEKS NOMINEES

Board of Governors is seeking nominations for external members for a three-year term that begins July 1, 1998. The board is particularly interested in expanding its list of qualified candidates to include external members from designated groups. Send nominations, marked confidential, to the B of G Membership Committee, Board Secretariat, Level 4, University Centre. Nominations remain active for three years following submission.

PARIZEAU TO SPEAK

Jacques Parizeau, former premier of Guelph and former leader of the Parti Québécois, comes to campus Sept. 15 to speak on "The Future of Canada and Quebec." The lecture begins at 7 p.m. in Peter Clark Hall. Tickets are \$8 general, \$5 for U of G students.

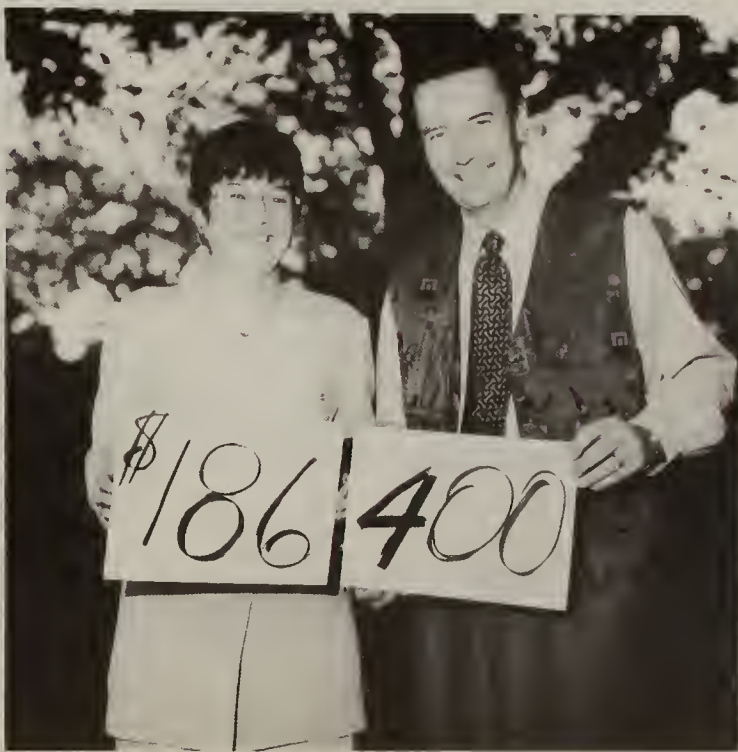
FACING THE FUTURE

Stakeholders from rural municipalities across Ontario will gather at a conference this October to arm themselves with information as they get set to make some unprecedented changes in their communities.

The conference, slated for Oct. 6 to 8 in Geneva Park, is sponsored by U of G, the Ontario Ministry of Agriculture, Food and Rural Affairs, Agriculture and Agri-Food Canada and the Rural Ontario Municipalities Association. It aims to ease the transition this January when the Ontario government transfers a number of provincial responsibilities to municipalities.

United Way Appeal Shoots for \$186,400

U of G has long tradition of being one of the strongest supporters of local campaign



For campus United Way co-chairs Nancy Sullivan and Prof. Wayne Martin, this year's magic number is \$186,400. Pledge cards will be distributed between Oct. 6 and 11. PHOTO BY DEAN PALMER

UOF G'S APPEAL for the 1997 Guelph-Wellington County United Way will be officially launched at the Homecoming football game in Gryphon Stadium Oct. 4 at 2 p.m., with president Mordechai Rozanski making the ceremonial kickoff. For every game ticket purchased, \$1 will be donated to the United Way.

The University's fund-raising goal is \$186,400 — the same as last year — towards the Guelph-Wellington County \$1.6-million campaign, which is chaired by Dennis Deters, senior vice-president of member and corporate relations at The Co-operators.

A number of events are planned at U of G this year. An Agency Day is set for Oct. 9 in the courtyard of the University Centre. Friday dress-down days are also encouraged for a "toonie" to the United Way, and several departments are planning fund-raising events. (Watch *At Guelph* for details.)

This year's campaign offers grand prizes and the largest-ever number of incentive gifts. (See story at right.)

The University community is invited to give generously to this year's appeal. "One has only to look at the list of agencies and programs supported by the United Way to know that it plays an important role in making Guelph a caring community," says Nancy Sullivan, vice-president (finance and administration), who is co-chair of the campus campaign with Prof. Wayne Martin, Population Medicine.

"At one time or another, each of us probably has called on — or will call on — these services in a time of need," says Sullivan. She notes that

many U of G faculty, staff and students volunteer their time to support these agencies.

The University community has a long and proud tradition of being one of the strongest supporters of the United Way, providing about 12.5 per cent of all money raised locally, says Martin. "This year, we are encouraging more donors to pledge through payroll deduction." Last year's average gift through the payroll plan was \$108, he says, but the key to success is to get a higher percentage of people contributing. Currently, only 35 per cent of the campus community participates.

Martin reminds donors that they can designate their gift to the community of their choice. "For those employees who live outside the Guelph-Wellington area and for our new donors at Alfred, Kemptville and Ridgetown colleges and the Horticultural Research Institute of Ontario, this is a way to ensure their money is directed to help their home-town communities." These donations will still be credited to the U of G campaign.

Faculty, staff and students across campus have volunteered to be area co-ordinators/canvassers for this year's appeal. "These are the people we depend on to make the campaign a success, and we thank them for volunteering," says Martin. "The area co-ordinators will ensure that sufficient canvassers are identified in their areas, and these canvassers will deliver your pledge card to you between Oct. 6 and 11 and answer your questions about how to donate

to the United Way appeal."

For more information about the campus drive, watch upcoming issues of *At Guelph*, call the UW hotline at Ext. 3636 or contact any member of the campus steering committee: Sullivan; Martin; Prof. Sandy Middleton, Zoology; Prof. Thom Herrmann, Psychology; Garry Round, Hospitality Services; student Mitch MacDonald; Jim Mahone, OAC dean's office; Owen Roberts, Office of Research; Sandra Webster, Communications and Public Affairs; and Liz Honegger of the U of G Retirees' Association.

If you have any general questions about the United Way or the agencies and programs it supports, call the downtown office at 821-0571.

BY SANDRA WEBSTER

PEOPLE

BOTANICAL SOCIETY HONORS CBS DEAN

CBS dean Bob Sheath is this year's winner of the Darbaker Prize from the Botanical Society of America. The award is given for meritorious work in the study of microscopic algae based on papers published during the past two years. Sheath, a faculty member at Guelph since 1995, was cited for his extensive publication record on the freshwater microscopic members of the *Rhodophyta*, his ecological work in tundra streams and his record of service with the Phycological Society of America, the British Phycological Society and the editorial boards of several phycological journals.

HORTICULTURISTS EARN KUDOS IN U.S.

Former graduate student David Percival and Profs. John Proctor and Jim Tsujita of the Department of Horticultural Science are the first Canadians to receive the Fruit Publication Award of the 4,500-member American Society for Horticultural Science. Presented at the society's annual conference in Utah this summer, the annual award honors the most outstanding paper on fruit crops published in the society's three journals. The winning paper was titled "Whole Plant CO₂ Exchange of Raspberry as Influenced by Air and Root-Zone Temperature, CO₂ Concentration, Irradiation and Humidity." Percival is now a faculty member at the Nova Scotia Agricultural College.

At the same conference, horticultural science graduate student H.P.V. Rupasinghe captured first place in the graduate student poster competition for his work on "Biosynthesis of α -Farnesene in Apple Fruit." His advisers are Profs. Dennis Murr and Gopi Paliyath.

COMMITTEE ADVISES NSERC ON COMMUNICATIONS

Owen Roberts of the Office of Research has been appointed for a three-year term to the standing committee on communications for the Natural Sciences and Engineering Research Council of Canada. The 10-member committee advises the council on communications policy and activities, including plans for its 20th anniversary in 1998.

Students SPARK Growth in United Way Incentive Prizes

IN RECENT YEARS, students in the Office of Research's SPARK (Students Promoting Awareness of Research Knowledge) program have garnered prizes for writing excellence. Now they're collecting prizes of a different kind — this time for U of G's 1997 campaign for the United Way.

During two days in July, SPARKers canvassed the downtown business community, malls and small plazas for prizes. They gathered about 100 gifts of merchandise and services from local merchants, with prizes ranging from ice cream to a pair of show tickets valued at \$120.

Susan Connelly, the SPARK student who is organizing the solicitations for the United Way, says the SPARK team has enjoyed this opportunity to help with the campaign. She says they're extremely pleased with the canvassing results from local merchants and grateful to all who contributed. In turn, campus co-chairs Nancy Sullivan and Prof. Wayne Martin express their thanks to the SPARK students for their efforts.

The students are also canvassing donations from faculty, staff and students. If you would like to donate, call Lou Ann Podmore at Ext. 3636.

WHY CARE ABOUT RESEARCH?

*'The intellect and collective knowledge that we cultivate in ourselves
and in our students is a public resource'*

AN OPEN FORUM ENTITLED "WHY CARE ABOUT Research?" was held on campus in January, offering participants a chance to discuss the role of university research in Canadian society and society's responsibility for university research infrastructure. The forum was sponsored by the Guelph chapter of Sigma Xi, U of G's faculty and staff associations, the Graduate Students' Association, the Office of Research and Graduate Studies. Physicist Ursula Franklin, a professor emerita at the University of Toronto who received an honorary degree from Guelph in 1988, opened the forum. The following is a summary of her remarks provided by Prof. Janet Wood, Microbiology.

What is research? Why do university faculty, staff and students do research? Research is a promise. If you knew the answer, you wouldn't have to do the research!

In research, there is a reciprocal relationship between the certainty of the answer and the profundity of the answer. If one can be reasonably sure of the results, do you want them? Researchers know that in many ways, research is a tedious, time-consuming process. You always have this feeling that you will go out and steal the Crown jewels when, in fact, you give up your holidays!

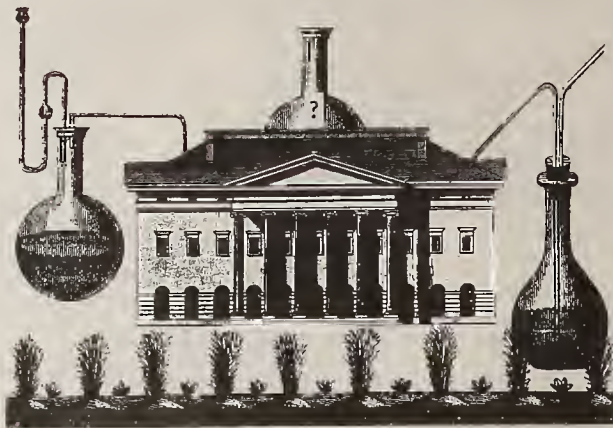
What qualifies a citizen to be a researcher and what are the tools of the trade? How do we look at intellectual activities? Do we see qualities that we value in people who till the land? Just as there's good farming, there's good scholarship.

Research is an activity, not solely an outcome. "Research has shown..." Our language treats painting like this. There is an activity that is painting and there is the painting that you hang on the wall.

Research is an intellectual activity with a protocol — not every intellectual activity is research — and there is a very elaborate protocol of research that comes out of the scientific revolution. The results of intellectual activities that are research must be reproducible.

Someone may say: "When you throw a ball in the air from any place on Earth, it will fall in Guelph. Research has shown that Guelph is the centre of the universe." This statement will only enter the textbooks when somebody in a different part of the world with a different mindset can reproduce the evidence that when you throw a ball in the air, it always lands in Guelph.

In the sciences, it becomes obvious that, as Ruth Hubbard has



said, scientists are fact makers. The research equivalent of the painting is new knowledge, knowledge critiqued and seen in a different way. A new fact or a different assessment of old knowledge.

What is the history of research? How are university researchers viewed by the public that supports them? Recognition of the political usefulness of fact makers is a recent but powerful insight of the state. No political leader today would think that a country could be successful if it did not have its top scientists. The country as a whole has an interest in having not only enough people who farm and process food, but also people who are competent to make facts.

In Canada, this has been acknowledged since the beginning of the First World War, when the National Research Council (NRC) was founded. One aim of NRC grants-in-aid of research was to provide the country with people who could define national problems and work on solutions.

How do researchers choose their questions? What resources are required to support university research? Questions come out of a researcher's makeup as a political and personal human being — out of what keeps the researcher awake at night! Research takes time, research takes money and research takes a climate. It needs, from all, an understanding of the process of research, a great deal of patience and the respect for matters of the intellect that one has with farmers. You don't ask farmers to pull out the carrots

on the first of every month to account to their sponsors on how the carrots are growing. One has to have some understanding of the process to know when to see whether the carrot crop needs fertilizing, watering, thinning.

There are those three things: time, money and climate. The problem — "What is the question?" — relates to all three. Because research takes money, those who have money may say: "I have money, I need facts, you need money, you can produce the facts, so why don't you work on my problem and the world will be a better place for it?"

Not all questions are scientifically, politically or socially of equal importance. Nor are all questions advanced by further research. Demands for research can serve as a political stalling mechanism — not a search for more facts, but a quest for more time to avoid facts.

What are the university's responsibilities?

The university must train and harbor a responsible group of researchers in a broad field who are available to the country as a whole, and it must respond to community need.

Members of the community may turn to a university and say: "We are troubled by our lack of knowledge in this area. Are there people among you who would do that research?" Can the university give them time? Can the university give them money? Can the university give them the climate that is needed?

The community is not just the sectors that are engaged in the marketplace. The community is just as much the people, the air, the soil and the institutions around the university. The intellect and collective knowledge that we cultivate in ourselves and in our students is a public resource, not a private endowment.

At the end of all research, we look for knowledge, understanding, discipline and critical thinking that can separate fact from propaganda, fact from wishful thinking and complete facts from incomplete facts. Public institutions such as the university must ask themselves: "Is knowledge a public good or is knowledge a private property? What do we do — what can we do — to keep that knowledge and that process available to all? Can all fact making be bought? How do we meet our responsibility to look at those areas in which those in need of new knowledge may be too poor, too inarticulate, too unorganized to successfully ask for our help?"

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ENGINEERS OF CHANGE

U of G attracts growing number of female engineering students

BY NORA MCCABE

IT USED TO BE engineering was a male preserve. Not anymore. And certainly not at U of G. According to a Canadian Council of Professional Engineers survey, nearly 20 per cent of the students enrolled last fall in undergraduate engineering programs across the country were women. At Guelph, that number rose to 37 per cent — well above any of its sister institutions.

What's the secret of U of G's success?

"I think the reason is that the specific engineering programs Guelph offers — especially our life science-based biological and environmental programs — are innovative and highly attractive to female students," says Prof. Lambert Otten, director of the School of Engineering.

This year's Winegard Medallist, Laurie Halpenny, who graduated this spring with a bachelor of science in biological engineering, agrees. "The programs are new, more cutting-edge, incorporating more life sciences, and they're interdisciplinary. The combination of traditional engineering skills and life sciences gives you a better breadth of knowledge."

And that's why there are more female engineering students at Guelph than anywhere else, adds Halpenny, a Rhodes Scholarship finalist who also won U of G's Governor General's silver medal for top undergraduate marks.

Long before 1987, when women began flocking to Guelph's engineering program in significant numbers, the University had pioneered a different approach. As early as 1874, Guelph was educating agricultural engineers with a concern for the environment and natural resources. Today, U of G offers fully accredited undergraduate degree programs in biological, environmental and water resources engineering and

engineering systems and computing, as well as advanced engineering education through its M.Sc. and PhD programs.

"I chose Guelph because it offered biological engineering at the first-year level, and at the time I started, it was the only university in Canada that did," says Heather Gunter of Edmonton, another Rhodes Scholarship finalist who graduated this spring and is now at Harvard on full scholarship doing a joint (with MIT) PhD in medical engineering. "I was completely satisfied because biology was not just an add-on to top of a traditional engineering program."

Not only did the exposure to subjects such as human kinetics convince Gunter that this

school's strong academic reputation, but also to its friendly and supportive atmosphere.

"We're a small school with a total of only 523 undergraduate engineers, so the students have very good access to the faculty," says Janet Diebel, a U of G engineering graduate who works as a program counsellor and liaison officer for the school. "The students get to know each other. The faculty get to know the students and vice versa. Consequently, we have a well-deserved reputation out there of being a very friendly school with a pretty tough program where you can still get personal attention."

"And because we're small, there's no feeling of having to compete in a negative way."

"THE COMBINATION OF TRADITIONAL

ENGINEERING SKILLS AND LIFE SCIENCES GIVES YOU

A BETTER BREADTH OF KNOWLEDGE"

was the field for her, but it also helped tip the scales with Harvard and MIT when she went for her interview, she says.

"The people there were quite impressed that the program gave me a full background in biology, which is exactly what they were looking for."

The program also appealed to Halpenny, a Guelph native who's now doing graduate work at U of G in biological engineering in the combined fields of medicine, engineering and computers.

"Engineering teaches you how to learn, and it teaches you problem solving," she says. "By the time you graduate, you have a toolbox of skills that I think will be most useful in today's society."

But she, like many of her 1997 classmates, half of whom were women, was attracted not only to

Although we're very competitive in admission terms, students don't feel they have to try to get ahead at other people's expense."

The chance to work together in small groups particularly appealed to Maggie Kusano of Toronto, who graduated with distinction in biological engineering.

"I think the emphasis on group work was important because in any job or career, you have to be able to work with other people," says Kusano, who is doing a master's degree in biomedical engineering at the University of Toronto.

Although U of G clearly attracts women, Diebel, who spends all fall and about half the winter visiting high schools and talking to prospective engineering students of both sex-

es, says she doesn't try to promote Guelph because of the number of women in its engineering program.

"Speaking for myself, I'd find it off-putting if someone tried to sell me on gender rather than the quality of the program."

Otten agrees. He credits U of G's increase in engineering students in general — in 25 years, undergraduate enrolment has grown from 100 to 523 and would rise even higher if facilities were expanded — and female students in particular to specialized programs that "attract exceptional students."

You see, although Halpenny graduated with the highest marks in the class of 1997, she had tough competition. And not just from her friend and bridesmaid Gunter. Another top contender was Anna Marta Michalak, an environmental engineer from Montreal who was accepted into the graduate engineering programs at MIT and Michigan State but elected to go to Stanford after winning its three-year fully funded President's Scholarship.

"Headhunters were after all of them," says Otten. "Our programs attract that kind of student — females and males, too."

He notes that graduates such as these are good role models for other potential female engineers as well as first-class ambassadors for the University.

Says Halpenny, whose graduate research will focus on the development of a neural network to analyse MRI images of the brain as an aid in diagnosing brain diseases and injuries: "I tell other women not to be scared of engineering, especially if they enjoy problem solving. I encourage them to try it because engineering is logical — it makes a lot of sense."

PROFILE

PHYSICS PROF A SUPER CONDUCTOR OF TEACHING AND RESEARCH

U.S. fellowship pays tribute to excellence in the classroom and lab

BY SUSAN CONNELLY

FOR PHYSICS PROFESSOR ELISABETH NICOL, teaching and research are the perfect partners. And it's her success in both that has earned her one of the most prestigious fellowships for beginning faculty members in the physical sciences.

Nicol is a 1997 recipient of a Cottrell Scholarship from the U.S.-based Research Corporation. Founded by chemist Frederick Gardner Cottrell to help young scientists, the award is unique because it recognizes faculty who excel in both teaching and research.

"This award represents my focus very well," says Nicol. "I believe in the importance of both teaching and research in the university setting — I strive to do my best at both. I'm very excited to have received this honor."

The scholarship will provide her with \$50,000 US to help fund her teaching and research efforts for the next five years.

The Research Foundation received more than 130 applications for the 1997 scholarship and awarded it to 22 scientists. In Canada, Nicol is one of only two recipients. It's only recently that the corporation began considering Canadians in the running.

Nicol is the graduate co-ordinator in the Department of Physics and has taught several courses at the undergraduate level, including one in the integrated first-year MP1 program. One of her long-term goals is to move away from the traditional lecture format into a new type of learning experience that develops the student as a scientist and scholar. This would



involve the student in more self-directed learning and working in groups to develop the skills essential for scientific and scholarly research and development.

She also encourages her students to strive for well-roundedness

and recommends that they take courses in other faculties. She practises what she preaches; since joining U of G in 1994, she has taken several courses in French literature and composition.

In her research, Nicol investigates the theoretical physics behind high-temperature superconductors, materials that can carry electricity with little loss of energy — and no resistance — when cooled to very low temperatures. In recent times, new materials have been discovered that superconduct, and she is one of several people who are trying to understand the physics behind these materials.

Nicol says superconductors are exciting in light of their various technological applications. Superconducting magnets, for example, can be found in hospital magnetic resonance imaging units. Japan is using superconductors to build magnetically levitated trains that could travel up to 500 kilometres per hour.

Although she's the only physicist at Guelph doing research on superconductivity, Nicol is part of a global network of scientists working in the field. "The work on superconductors is a worldwide effort toward a common goal," she says. "Although politics may raise boundaries, international barriers do not exist when it comes to science."

Nicol also holds a number of other awards, including the Polanyi Prize and the Natural Sciences and Engineering Research Council Women's Faculty Award.

PHOTO BY DEAN PALMER

GRAD NEWS

The final examination of **Sherry Dupuis**, a PhD student in the division of family relations and human development in the Department of Family Studies, is Sept. 26 at 9 a.m. in the Couple and Family Therapy Centre. Her thesis is "The Roles of Adult Daughter in Long-Term Care Facilities: Alternative Caregiver Career Paths." The adviser is Prof. Joan Norris.

The final examination of **Christopher Kyle**, an M.Sc. candidate in the Department of Zoology, is Sept. 29 at 2:30 p.m. in Room 259 of the Axelrod Building. The thesis is "Molecular Population Genetic Structure of Northeastern Pacific *Littorina*." The adviser is Prof. Elizabeth Boulding.

The final examination of PhD candidate **Doug Ramsey**, Geography, is Oct. 3 at 10 a.m. in Room 234 of the Hutt Building. The thesis is "Change in Rural Community Well-Being: A Case of the Tobacco Belt, Southern Ontario." The adviser is Prof. Barry Smit.

The final examination of **Reena Pinheiro**, a PhD candidate in the Department of Horticultural Science, is Oct. 7. The seminar is at 1 p.m. in Room 2310 of Graham Hall, followed by the seminar at 2 p.m. in Room 1118 of the Bovey Building. The thesis is "Biochemical Mechanism of Chilling Tolerance in Maize." Her advisers are Profs. Dennis Murr and Gopi Paliyath.

The final examination of PhD candidate **Trevor Claxton**, Zoology, is Oct. 10 at 2:30 p.m. in Room 259 of the Axelrod Building. The thesis is "Molecular Systematics and Ecology of Deep- and Shallow-Water Populations of *Dreissena polymorpha* and *Dreissena bugensis* in Lake Erie." The advisers are Profs. Gerald Mackie and Elizabeth Boulding.

Interested members of the University community are invited to attend.

SENATE REPORT

continued from page 2

Student Petitions

Senators learned that the committee dealt with 20 student petitions in 1996/97, up from 17 the previous year. Of the 20 cases, 12 were granted, seven were denied and one was resolved through an alternative solution.

University Planning

Senate approved the creation of a School of Languages and Literatures to combine the departments of Languages and Literatures and French Studies, and the creation of a School of Music and Fine Art to combine the departments of Music and Fine Arts, effective immediately. The search will now begin for a director for each of the schools. The restructuring is the first step in a comprehensive plan to merge several departments in the College of Arts — a move aimed at increasing efficiency and enhancing collaboration. Prof. Bruce Koenig, Drama, noted that several issues related to tenure and promotion must be addressed by the U of G

Faculty Association and the Joint Faculty Policies Committee.

Board of Undergraduate Studies

Senate approved revisions to the academic misconduct policy at the undergraduate and graduate levels. The penalty for academic misconduct will be extended to include the possible rescinding of U of G scholarships for up to two years. In addition, students charged with academic misconduct will be prevented from dropping the courses(s) in question during the investigation stage. Students found guilty of academic misconduct and assessed a penalty of anything other than a warning will not be allowed to drop the course(s). These changes become effective in the spring of 1998.

Senate approved an articulation agreement between Guelph's BA program and Conestoga College's career development practitioner certificate. Beginning in September 1998, students will be able to earn concurrent credits towards a BA and the certificate program. Conestoga is already an articula-

tion partner with Guelph's B.Comm. program for the college's programs in business administration, food and beverage management, general business and computer analysis.

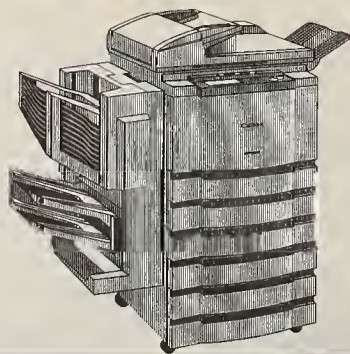
Board of Graduate Studies

Senate approved a name change for the Guelph-Waterloo Centre for Graduate Work in Chemistry. It is now the Guelph-Waterloo Centre for Graduate Work in Chemistry and Biochemistry. The acronym will remain the same — GWC.

Senate received for information results of the Ontario Council on Graduate Studies' program appraisals for 1996/97. The M.Sc. in rural extension studies, the M.Sc./PhD in food science, the diploma/M.Sc./PhD in pathobiology and the M.Sc./PhD in toxicology have been approved to continue and were classified as good quality. The M.Sc./PhD in microbiology was approved to continue as good quality. The M.Sc./PhD in biophysics has been recommended for consultants.

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Mobile computer desk, wood grain, 23" x 28", slanted shelf for keyboard, three shelves below, 846-5644.

Two dressers, nine- and five-drawer matching, dark wood; baby stroller; beige fabric room dividers, 821-1979.

One ticket for the River Run Centre's Oct. 4 evening gala, 837-3169.

Automatic car starter, just bought in December 1996, Toni, Ext. 3343 or 763-6254 after 5 p.m.

Chocolate Labrador retriever puppies, CKC-registered, born Aug. 9, 519-396-3120 (Kincardine).

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Rattan table with 40-inch round glass top, four chairs, Ext. 6580.

1994 Toyota Tercel DX, five-speed, two doors, AM/FM stereo, sunroof, original owner, 83,000 km, certified, Lalit, Ext. 3696 or 823-9782.

Multi-family garage sale, Sept. 27, 8 a.m. to noon, 12 Tobey Ave., off Victoria.

Bright four-bedroom house on Palmer Street across from St. George's Park, fireplace, lots of oak details, large lot, quiet neighborhood, available in October, 763-4425.

FOR RENT

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dry, deck, balcony, two-car garage, references required, no dogs, 824-8752 or pager 821-6191.

Upper half of furnished split-level house in quiet neighborhood, two bedrooms, laundry, parking. Available Jan. 10 for three months, non-smokers, \$800 a month inclusive, 821-6432.

Furnished two-bedroom condo available in Guelph for short-term visits, fully equipped kitchen, TV and VCR, Jacuzzi, Carol, 823-1857 or 837-7537.

WANTED

Quiet house in a rural setting within a half-hour drive of Guelph for professional couple with small dog, needed from October through July, would do caretaking or other tasks, James, Ext. 6155 or 837-3092.

Classifieds is a free service available to U of G staff, faculty, students, alumni and retirees. Items must be submitted by Wednesday at noon.

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For more information contact

Rick Yada, Food Science Administration Building

Ext. 3787 e-mail: ryada@uoguelph.ca

or check our website at: www.soybeans.com/projectsoy

EVENTS

ARBORETUM

Horticulturist Henry Kock and naturalist Chris Earley lead workshops on native tree identification Oct. 6 and 8 from 10 a.m. to 4 p.m. Cost is \$21. Register by Sept. 29 at Ext. 4110. On Oct. 14, Earley presents "Gourmet Delights for Birds" at 7 p.m. Cost is \$13. Register by Oct. 7.

ART CENTRE

The Macdonald Stewart Art Centre (MSAC) will unveil Jane Buyers' *Agriculture* in the Donald Forest Sculpture Park Sept. 25 at 7:30 p.m. An opening reception follows for the exhibitions "Vintage Weston," "Telling Stories: Recent Acquisitions of Contemporary Art" and "Framed." MSAC also presents a lecture by Sheila Ord on "The Child in Inuit Art" Sept. 30 at noon, an artist talk with Buyers Oct. 2 at 4 p.m. and a lecture on "Edward Weston" by Lori Pauli of the National Gallery of Canada Oct. 7 at 7:30 p.m.

CLUBS

The U of G Squash Club is looking for players to join women's and men's teams preparing for the upcoming Winter Squash Ontario (Western region) Inter-Club League. Sign up at the squash courts by Sept. 25 or call Michael Herbert at Ext. 6257.

COMMUNITY EVENTS

Guelph Native Women's Circle presents a Neechi Feast Sept. 27 beginning at 11 a.m. at the Matrix Building, 141 Woolwich St. The day will feature performances by Spirit Nation drummers, dancers and musicians, exhibits by native artisans and a potluck dinner at 5 p.m.

Victory Public School will hold its annual used skate and sports equipment sale Oct. 4 from 9 a.m. to 4 p.m. Donations may be dropped off at the school Oct. 3 from 6 to 9 p.m. at the school's Powell Street entrance.

CONCERTS

The Department of Music launches its 30th annual Thursdays at Noon concert series Oct. 2 with the Tibia Wind Quintet from Sweden. The concert begins at 12:10 p.m. in MacKinnon 107. The series continues Oct. 9 with pianist Minna Re Shin.

LECTURES

Third Age Learning — Guelph continues its fall lecture series for retired people Oct. 1 with Prof. Bram Cadsby, Economics, discussing "Trade Agreements and Trade Disputes" at 10 a.m. and "The Breast of a Harpy" with Prof. Chandler Kirwin, Fine Art, at 1:30 p.m. Lectures are at the Arboretum Centre.

Prof. Ann Hahnel, Biomedical Sciences, examines "Alkaline Phosphatase: A Contributor or Just a Pretty Color" Oct. 2 at 2:30 p.m. in the Central Animal Facility.

OPEN HOUSE

The Centre for International Programs invites members of the University community to check out its new quarters on the second floor of Day Hall Sept. 30 from 3 to 5 p.m.

SEMINARS

Biomedical sciences graduate student Harpreet Kochhar examines "Sperm-Oocyte Interaction Time and Sex Ratio of Bovine Oocytes" Sept. 26 at 12:30 p.m. in OVC 1642.

The Department of Chemistry and Biochemistry presents University of British Columbia chemist John Sherman discussing "Molecular Ships in Bottles" Sept. 26 at 2:30 p.m. in MacNaughton 222.

Tom Parr Jr. of the Eli Lilly Research Centre in Indianapolis outlines "Industrial Infectious Disease Research: Multinational and Biotech Perspectives" Sept. 26 at 1:30 p.m. in OVC 1713. The talk is sponsored by the Department of Microbiology.

Julian Payne, executive director of the Asian Development Bank in Canada will speak Oct. 1 in the Whippetree. His topics are "The ADB and Development in Today's Asia" at 2 p.m. and "Business Opportunities Today at the ADB" at 3:15 p.m. For more details, call the Centre for International Programs, Ext. 6904.

CBS presents honorary degree recipient Bengt Saltin of the Copenhagen Muscle Research Centre Oct. 6 at 1 p.m. in OVC 1715. His topic is "Can Heat Production in Dynamically Contracting Muscle Be Measured in Humans and Does It Reflect the Metabolic Energy Flux?"

WORKSHOPS

Faculty interested in learning how the World Wide Web can be used effectively in their teaching can head off to "Club Web" Oct. 3 or 22. This introductory session on the Web runs from 10:30 a.m. to 12:30 p.m. in the group viewing room in the library. To register, e-mail your requested date to mnairn@uoguelph.ca. For more details, call Mary Nairn, Ext. 3571.

WORSHIP

Roman Catholic Mass is celebrated Sundays at 10:10 a.m. in Room 100 of the Thornbrough Building.

A spirituality circle for women meets Fridays at 11:30 a.m. in UC 533. For more information, call Rev. Lucy Reid, Ext. 2390.

The Ecumenical Campus Ministry and Harcourt Church offer non-denominational Sunday services at 7 p.m. at Harcourt Church, 87 Dean Ave.

The Roman Catholic and ecumenical campus ministers are leading a study group to explore contemporary perspectives on the four gospels Wednesdays at 12:30 p.m. in UC 334.

IN THIS ISSUE

- 3 OVC'S SMALL-ANIMAL ICU** moves into bigger quarters to meet the growing demand for its services.
- 5 SHE SHOOT'S**, she scores, and she will soon be coming to a Campbell's Soup can near you.
- 6 FORMER PREMIER** Jacques Parizeau says age has made him even more militant in the cause of Quebec independence.
- 7 WRITE ON!** Austin Clarke, one of Canada's most esteemed authors, is booked in as writer-in-residence for the fall semester.
- 8 MUSIC, PLEASE.** U of G celebrates the 30th anniversary of the Thursdays at Noon concert series.

Schofield Lecture Oct. 23

Specialist in infectious diseases to speak

HARLEY MOON of Iowa state University, a specialist in the field of infectious diseases, will give OVC's 1997 Schofield Memorial Lecture Oct. 23.

Moon, who holds the E.K. Ramsey Research Chair in Veterinary Medicine at the Veterinary Medical Research Institute at Iowa, will discuss "Comparative Medicine II: Tracing Scientific Roots to Schofield" at 3:30 p.m. in War Memorial Hall. The talk will examine the progress made over the past 30 years in managing intestinal infections.

Moon graduated from the University of Minnesota in 1960 with a DVM, then completed a PhD in veterinary pathology and microbiology. He taught at the University of Saskatchewan for two years and joined the National Animal Disease Centre with the U.S. Department of Agriculture in 1968. He remained there until 1995.

Moon is a member of the American College of Veterinary Pathologists and an honorary diplomate of the American College of Veterinary Microbiologists, and holds an honorary doctorate from the University of Zurich. In 1991, he was elected to the National Academy of Sciences, one of the highest accolades the U.S. scientific community can bestow on a colleague.

The Schofield Memorial Lecture was established in 1970 by OVC in commemoration of Francis Schofield, a renowned veterinary pathologist who taught at the college from 1921 to 1955.



Send in the Clown. And Don't Forget the Balloons!

Clown antics and balloon animals were a big hit at the carnival arcade set up last weekend on Branton Plaza as a pre-football game event for families during Homecoming '97. Several hundred kids of all ages enjoyed the games and rides. Warm weather and sunny skies helped draw about 8,000 people to campus for this year's Homecoming events. See related photo on page 4.

PHOTO BY TRINA KOSTER

Senate Reviews Draft Policy on Human Rights

*Discussion will help shape future direction
for Human Rights Policy Development Group*

AN INFORMAL SENATE SESSION held Sept. 30 to discuss U of G's draft human rights policy proved constructive and useful for the committee that created the document, says chief librarian Michael Ridley, a member of the Human Rights Policy Development Group (HRPDG).

"We were impressed with both the quality and the quantity of comments at the meeting," he says. "These will be very helpful in shaping the direction we take in the months ahead. The committee is pleased that Senate gave

us this opportunity for discussion."

In turn, senators expressed their appreciation of the work that went into producing the document. Associate vice-president (student affairs) Brian Sullivan, an original member of the working group who was on leave from January to July 1997, said he was delighted and encouraged to learn on his return that the initial draft had been completed and was out in the public. He lauded the working group for its efforts. His

continued on page 4

PEN Is Mightier Than the Sword

*Canadian anthology promotes freedom of expression
and raises funds for writers imprisoned overseas*

SO GOES ONE THEORY: In the 500-channel television universe, the printed word is dead, or at least seriously ill. Satellite dishes, the Internet and 24-hour cable news channels communicate the most vital issues of the day, leaving Gutenberg and company to tap out plodding stories about love's inevitable swells and troughs.

If you think that's an accurate commentary, you may want to learn more about PEN Canada, starting with a read of *Writing Home*, the new PEN anthology edited by Prof. Constance Rooke, associate vice-president (academic).

Writing Home is a series of meditations on the subject of home, published to raise funds for the cause of writers imprisoned overseas, as well as freedom of expression here in Canada. Since its release in June, *Writing Home* has been met with unqualified critical acclaim. It is also literature in support of issues as real and relevant as the evening news.

The list of contributors to the anthology reads like a Who's Who of CanLit. Margaret Atwood, Timothy Findley, Rohinton Mistry, Alice Munro, Michael Ondaatje, Nino Ricci, John Ralston Saul, Carol Shields and U of G English professor Janice Kulyk Keefer are just a few of the 44 writers who all agreed to sit down and produce new work to be included in the book.

The result is a sequel to 1994's enormously successful *Writing Away*, which to date has earned more than \$150,000 for PEN.

"*Writing Away* is a travel anthology," says Rooke, who is also a literary critic, short-story writer and long-time editor of *The Malahat Review*. "Travel has wide appeal, and we thought we could tap into that interest to make money for PEN. It worked splendidly. Then, when we — (publishers) McClelland & Stewart, PEN and I as editor — started to think about a sequel, we looked for a title that would relate to and build on the success of *Writing Away*. The opposite of 'away' is 'home.' That gave us the concept for another book with wide appeal and a title that again had resonance for the work of PEN because writers in prison are away from home."

PEN Canada is one of the most active centres of International PEN, with 500 members and 300 associate members across Canada. The original PEN, an acronym for Poets, Essayists and Novelists, began as a writers' club in London, England, in 1921.

There have been great success sto-

ries in both the recent and distant past. PEN's campaigns successfully aided the cause of embattled writers Arthur Koestler, Alexander Solzhenitsyn, Boris Pasternak and Vaclav Havel. But there has also been tragedy. PEN's greatest exertions couldn't save writer and activist Ken Saro-Wiwa from being executed by Nigerian authorities in 1995. Before his death, Saro-Wiwa wrote to PEN Canada from prison to thank it for "the wonderful things you have done for me."

That writers continue to be imprisoned is ironic proof of the power of words, says Rooke.

That *Writing Home* was published at all is an achievement on at least three levels. It is a celebration of the human spirit, of the power of artists working collectively in a common cause and of good Canadian writing. Readers should not suppose from the title that the book is a fuzzy collection of hearthside fables. There is an edgy, pointed quality to the book. At times, as with Leon Rooke's "Bury Him at Home," about an abusive husband and father, the book is dark and disturbing. Elsewhere, Ron Graham writes on Quebec's possible separation, Ondaatje is ill in Sri Lanka and seeing his own death, and Atwood takes a wistful look at the disjointed, uncomfortable language of home.

"When people talk about home, they often move to a place imbued with positive emotions and a sense of comfort," says Constance Rooke. "And that is often the case in this book. But home is not always a safe place for people."

PEN Canada's awareness-raising involves telling the media and the world about writers who are jailed, tortured, threatened with violence or otherwise oppressed anywhere in the world. In addition, Canadian members act as "minders," making sure the case of individual writers is always being heard. Minders act as a personal support system for imprisoned writers, sending letters and parcels, organizing petitions and lobbying on their behalf.

One successful case involved Martha Kumsa, an Ethiopian journalist who was imprisoned for eight years. Repeated efforts by PEN Canada, particularly those of novelist Timothy Findley, worked to secure her release, and later her emigration to Canada. A similar campaign helped secure the release of Cuban writer Cecilio Ismael Sombra Haber, who is now writer-in-residence at York University.

PEN Canada continues to support

continued on page 7

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BOARD OF GOVERNORS

First fall meeting welcomes seven new members

AT THE FIRST BOARD OF GOVERNORS MEETING FOR 1997/98, held on Sept. 25, board chair Doug Dodds welcomed the following new members:

- Tony Arrell, regular chair and chief executive officer of Burgandy Asset Management Ltd., Toronto. A 1967 OAC graduate, Arrell will chair the External Relations Committee and serve on the Finance, Senior Compensation and Executive committees.
- Lynda Bowles, a 1972 FACS graduate and a partner with Deloitte & Touche, Toronto. Bowles will serve on the Audit and Pensions and Benefits committees.
- Warren Jestin, senior vice-president and chief economist at the Bank of Nova Scotia, Toronto, where he

is also responsible for Public and Corporate Affairs. A 1971 BA and MA economics graduate of the College of Social Science, he will serve on the Finance Committee.

The new internal Board of Governors members were also introduced. They are Colin Dawes, a third-year undergraduate in biological sciences; Prof. Ann Gibbins, chair of the Department of Animal and Poultry Science; Christoph Wand, an M.Sc. student in animal and poultry science; and Nathan White, a third-year B.Comm. student in housing and real estate management.

A full list of this year's Board of Governors members will appear in an upcoming issue of *At Guelph*.

AUDITED FINANCIAL STATEMENTS REVIEWED

B of G reviewed the audited financial statements and confirmed that Guelph had achieved its three main budgetary goals in fiscal 1996/97: The B of G-mandated deficit repayment schedule had been met; funds to assist in meeting the 1997/98 operating fund budget target had been tentatively identified, (subject to final enrolment and grant transfers); and all remaining components of the operating budget were in balance.

TENURE POLICY AMENDED

Prof. Iain Campbell, provost and vice-president (academic), introduced amendments to the faculty policy on tenure. Following a study of practice at other major universities, a recommendation was made to

add the use of external referees to the assessment process in the final year of candidacy for tenure. The appeals process has been clarified, and the wording of the policy has been changed to remove any negative connotation associated with a decision to continue the appointment without conferring tenure. In addition, the policy now requires the dean to meet the faculty member soon after the initial appointment is made to convey information and answer questions about the tenure process.

STUDENT POLICIES AMENDED

Brian Sullivan, associate vice-president (student affairs), introduced amendments to the student organization registry policy and the policy on principles governing the recognition of student governments. These policies provide guidelines to student

organizations and outline the rights and benefits that come with the recognition of their status.

In effect since 1977, the proposed revisions ensure the content is consistent with current practices and policies on campus. It is proposed that the collection of student fees on behalf of the student organization registry be at no cost to the individual student organizations and that audits requested by the Office of Student Affairs also be at no charge.

COMMITTEE MEMBERSHIP

Board of Governors approved the membership of the 1997/98 Judicial Committee and the Committee on Student Rights and Responsibilities. The terms of reference and rules of procedures for the Judicial Committee were amended to provide for the appointment of alternates.

Staff Development Programs Offer Job-Related Skills Training

REGISTRATION CONTINUES for the development opportunities being offered to faculty and staff by Human Resources this fall. All employees recently received a booklet outlining the courses available.

Offerings this semester include legislated and safety issues, technical and computing technology, and human relations skills development.

"Most of the programs have been designed in a one-day format to recognize operating requirements at the departmental level," says Karen Kovats of Human Resources. "But each course offering can be approached as just one component of a larger skills package. The skills development initiated in one program can be augmented in subsequent courses."

For example, if working with a team or a project focus is an important aspect of the working environment in your unit, "Leadership

Through Teams" is a program that might interest you. In addition, you could invite your small team to join you in "Managing Team Projects" or in "The Stages of Group Development."

To prepare an employee for the role of safety committee member or chair, Human Resources offers seminars such as "The Role of Safety Committees," "WHMIS," "The Occupational Health and Safety Act" and "Hazard Recognition and Workplace Inspection." "Assertiveness Training" and "Mediation Skills" also complement each other, says Kovats.

"There are many other examples of how you can group programs to form skills sets that will help you (or the people who report to you) to enhance job-related knowledge and skills," she says.

Costs of all courses are supported by Human Resources. They are open

to any full-time employee or anyone with a continuing appointment of longer than six months. Depending on availability, registration for courses will continue to be accepted through October and into November.

For more information, call Kovats at Ext. 6495 or Margaret Middleton at Ext. 6800.

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UNIVERSITY OF GUELPH

What's the Buzz?

"THE COMPLETE BEEKEEPER," a U of G independent study course and video package, received a silver medal last month in Belgium at Apimondia '97, the 35th International Apicultural Congress organized by the International Federation of Beekeepers' Association. The medal was awarded in the educational category, competing against 25 entries from 20 countries. Earlier this year, "The Complete Beekeeper" received the 1997 Entomology Educational Project Award from the Board Certified Entomologists of Mid-America, a group associated with the Entomological Society of America.

"The Complete Beekeeper" is an extensive course covering all aspects of beekeeping, including starting an apiary, bee diseases and plant pollination. The course was written by Prof. Cynthia Scott-Dupree, Environmental Biology.

HUMAN RIGHTS LAUNCHES PROJECT

The Human Rights and Equity Office is beginning a voluntary research project to identify the barriers and positive developments that affect the participation of lesbians, gay men and bisexual and transgendered persons in university life. It is titled "Project VISION: Towards A Campus Free from Harassment and Unfair Treatment Based on Sexual Orientation." The office invites letters of interest from students, staff, faculty or members of the Guelph community who would like to participate on the project advisory group. If you are interested, write to the office by Oct. 20. For more information, call Jodie McConnell at Ext. 6100 or send e-mail to jmc.conne@uoguelph.ca.

TSS SERVICES GROW

Faculty across campus are receiving a mailing from Teaching Support Services (TSS) this week highlighting the unit's new initiatives to support learning and teaching at Guelph. These include a peer consultation program for faculty who wish to explore their teaching practice by receiving constructive feedback from a peer. TSS is also supporting faculty use of the World Wide Web as a learning tool through introductory sessions, a Web developers' group and project-based development. In addition, TSS offers interactive videoconferencing for meetings and external examinations. To learn more about the videoconferencing service, drop by TSS Oct. 29 from 1 to 3 p.m.

NOMINEES SOUGHT FOR STUDENT LIFE AWARD

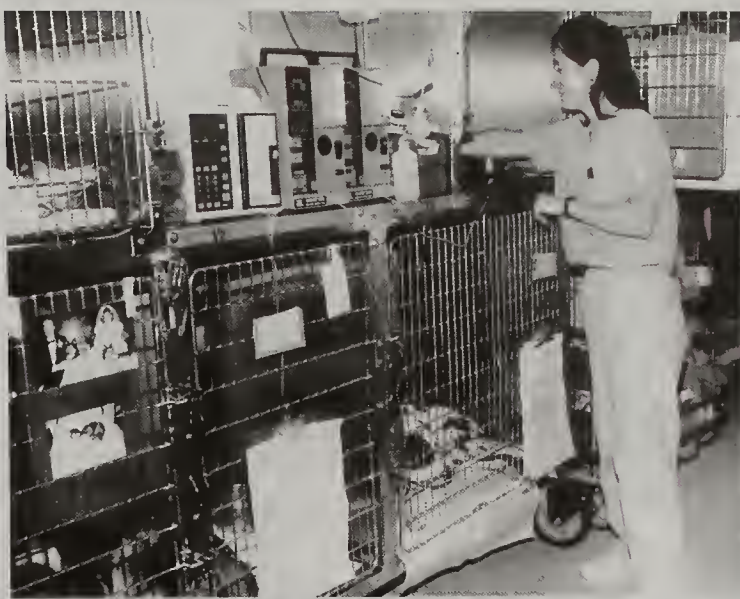
Know an individual or group who has helped enhance the quality of student life at U of G? Here's your chance to bring them recognition by nominating them for the University's annual R.P. Gilmor Student Life Award. Any U of G student, staff, faculty member or graduate or any community member who has had an association with the University may be considered for the award. Nominations are due Oct. 29 at 4 p.m. in the Office of Student Affairs on Level 4 of the University Centre. For more information, call the office at Ext. 3192. The award is named for Paul Gilmor, who served as provost of U of G from 1967 to 1987.

BUSINESS WORLD VISITS

Edu-Con '97, a day-long educational conference for students to gather information about different career areas in the business world, comes to campus Nov. 1. The conference will have speakers catering to agricultural business, hotel and food administration, management economics, housing and real estate and marketing management majors. Sign up for Edu-Con Oct. 15 from 9:30 a.m. to 3:30 p.m. in the FACS Building and Oct. 16 from 9:30 a.m. to 3:30 p.m. in the MacKinnon Building. Cost is \$15. For more details, visit the Web site <http://www.uoguelph.ca/~educon>.

Small-Animal ICU Sets Up Shop in New Home at OVC

Intensive-care unit will help meet increasing demands for its services



The ICU's increased space gives staff the flexibility needed to deal with a variety of patients. PHOTO BY TRINA KOSTER

OVC's SMALL-ANIMAL intensive-care unit, the first of its kind in Canada, has a new home that will expand its tradition of providing round-the-clock care to animals requiring specialized/continual medical attention.

Animal cases from across North America are referred to the ICU, which was the first centre in the world to perform kidney transplants in dogs.

The new ICU, more than double the original space with separate areas for emergency care, critical care and chemotherapy, was officially opened Sept. 27 by OVC dean Alan Meek, Veterinary Teaching Hospital interim director Mimi Arighi, ICU co-ordinator Prof. Karol Mathews and D'Arcy Reade of Sydenham Veterinary Services, who spearheaded a campaign to raise funds for the new unit. The opening was watched on closed-circuit TV by about 190 veterinarians attending OVC's Pet Trust Practitioners' Appreciation Day.

The fund-raising campaign — launched in 1995 by OVC's Pet Trust board of trustees, which is chaired by Roger Warren, raised \$250,000 from the public and corporate sectors. Construction was carried out over the summer. OVC's Student Equipment Fund supported the purchase of microscopes,

a VCR and monitor for the unit.

"We are grateful to the Pet Trust board and all the many donors who made the dream of an upgraded ICU come true," says Meek. "The unit will allow us to better serve our patients, referring veterinarians and the animal-owning public, and will strengthen our teaching program."

The increased space allows Mathews and the unit's staff of registered veterinary technicians the flexibility needed to deal with patients — and owners — with a variety of needs. The 1,325-square-foot facility consists of two large rooms and a number of smaller adjoining units. It includes a soundproof area for patients needing complete quiet and segregation, a special procedures area, a tiny kitchen where special food and diets can be prepared, a small seminar/student room and a client visiting area.

"The new ICU/ER facility will be a tremendous improvement in terms of patient care, teaching and organization," says Mathews. "The client visiting area is an important addition as this allows owners to visit with their pet in comfortable and private surroundings, especially when euthanasia is being performed."

The facility also offers final-year students an improved environment

for obtaining skills and techniques related to veterinary care.

The new ICU will allow staff to keep up with increasing demands for service. The unit's caseload has quadrupled in the 11 years since it opened. It now manages about 160 cases a month, ranging from post-operative and trauma care to animals in for organ transplants or specialized cancer therapy.

Over the years, the unit has served dogs, cats, rabbits, birds and even potbellied pigs. Patients stay anywhere from two days to three weeks, depending on treatment. The unit operates 24 hours a day, seven days a week, and handles all emergency cases.

The increasing demand for its services is due, in part, to advances and expectations in veterinary medicine, says Mathews, one of only two diplomates in Canada of the American College of Veterinary Emergency and Critical Care. Collaborative work between veterinary and medical practitioners has led to advances in both human and animal health care, she says, and there is more sharing of expertise.

The area vacated by the ICU has become the "prep" area for patients awaiting surgery or requiring anesthetic or sedation for other procedures.

BY MARGARET BOYD

PEOPLE

TEXTILE MEDAL GOES TO FIRST CANADIAN

Prof. Keith Slater, Engineering and Consumer Studies, is the 1997 recipient of the Textile Institute's Warner Memorial Medal, widely regarded as the world's most prestigious award for published textile science research. Slater is the first Canadian to receive the medal, which was inaugurated in 1930, and only the third textile scientist working in North America to be honored.

The Textile Institute, to which Slater was awarded a fellowship in 1971, is the professional organization for people associated with fibres, fabrics, clothing, footwear, interior textiles and technicals. It has some 10,000 members in almost 100 countries. Slater served as world vice-president from 1974 to 1978. He will receive the award at the institute's annual convocation in Manchester, England, in November.

TRIBUTE TO PHILOSOPHER

The Department of Philosophy will pay tribute to Prof. Bill Hughes, who retired in August after 32 years at U of G, at a two-day colloquium on "The Philosophy of Law" Oct. 31 and Nov. 1. One of the founding members of the Department of Philosophy, Hughes has made important contributions to the philosophy of law, particularly in the Canadian context. The event kicks off Friday night (location TBA) with a talk by Keith Culver, a former student of Hughes' who is now a faculty member at the University of New Brunswick. On Saturday morning, guest speakers are philosophy chairs Will Waluchow of McMaster University and Les Green of York, beginning at 9 a.m. in the Macdonald Stewart Art Centre. In the afternoon, Hughes will chair a round table on affirmative action, with discussants to include his former student Jim Shea, now a lawyer. Talks will be aimed at a general audience, and everyone is invited to attend. There is no charge, and lunch is included. For more information, call colloquium organizer Prof. Michael Ruse, Ext. 3232, or the Department of Philosophy, Ext. 3885.

MATH SOCIETY NAMES PRESIDENT

Prof. Anna Lawnicka, Mathematics and Statistics, was recently elected president of the Canadian Applied Mathematics Society. A graduate of Wrocław Technical University and Southern Illinois University, she joined U of G in 1989.

FOOD ENGINEERING STUDENT HONORED

Karen Conrad, a ninth-semester co-op student registered in the food engineering program, is the first Canadian to receive the Food Engineering Scholarship of the Foundation of Dairy Food Industries Supply Association. Only two of the scholarships are awarded in North America each year. Conrad's award includes a travel grant to attend the Worldwide Food EXPO this fall in Chicago, where she will be presented with the scholarship.

World Expert on Weeds Visits

Canadian entomologist will discuss biological weed control in the 1990s

PETER HARRIS, a world authority on the biological control of weeds, will visit campus Oct. 21 and 22 to speak and participate in a round-table discussion on biological control in the 1990s. He is professor emeritus with Agriculture and Agri-Food Canada, where he worked from 1959 to 1995.

Largely due to his efforts, Canada's

weed biocontrol program is recognized as one of the most successful in the world. In 1997, Harris was named a member of the Order of Canada and received the Gold Medal from the Entomological Society of Canada. He also received the first Special Award from the Canadian Forum for Biological Control.

At U of G, Harris will speak on the

"Evolution of Classical Weed Biocontrol in Canada" at 3 p.m. in Room 1715 of the OVC Learning Centre. At 4:15 p.m., a round-table discussion moderated by Prof. Derek Bewley, Botany, will address the future of biological control in Canada. A reception will follow at the University Club. To arrange a private meeting with Harris, call Jim Corrigan at Ext. 8591.

Caribbean Vacation is Grand Prize in United Way Draw

Office of Research student writers receive unprecedented support for incentive draws from area businesses, bringing in more than 130 prizes

NEEED A WEEK in the warm Caribbean sun this winter? Donate to the United Way, and you just might get the break you're looking for.

The grand prize in the 1997 campus United Way incentive draw is a one-week Caribbean holiday for two — valued at \$2,300 — to Sun Village Costa Linda on the Juan Dolio beach in Santo Domingo, Dominican Republic.

The prize, to be drawn Dec. 8 at the United Way volunteer appreciation event, is sponsored by Guelph-based Golding Travel, Sunflight Holidays.

Anyone who supports the campaign through payroll deduction or a one-time official receipted donation is eligible to win.

Golding Travel is offering further support to the campaign — it will also donate five per cent of the base price of any Sunflight Holiday booked through the company during the campaign. Sunflight flies to the Caribbean, California, Hawaii, Mexico and Florida.

The grand prize and supplementary donation were arranged by U of G graduate Ruth Golding, director of corporate sales for Golding Travel, and Owen Roberts, Office of Research, chair of the campus United Way incentive prize program.

"Golding Travel's generosity is incredible," says Roberts. "Its support of the campaign will go a long way towards helping the University help the community." U of G provides about 12.5 per cent of all money raised locally for the Guelph United Way.

The incentive prize program continues to be popular with students, staff and faculty and this year has received unprecedented support from local businesses. More than 130 prizes, ranging from exotic home-made desserts to a \$130 pair of shoes, have been collected by Office of Research student writers, led by Susan



President Mordechai Rozanski officially kicks off the 1997 campus United Way campaign just before Saturday's homecoming football game, with campaign co-chairs Nancy Sullivan, vice-president (finance and administration), and Prof. Wayne Martin, Population Medicine, holding the ball. The Gryphons maintained their undefeated record with a hard-fought 16-to-12 victory over the York Yeomen before a crowd of more than 7,000. With the win, the Gryphons move into top position in the Ontario University Athletic Association standings.

PHOTO BY DEAN PALMER

Connelly. The first incentive prizes will be awarded Oct. 22, halfway through the six-week campaign.

Watch upcoming issues of *At Guelph* for more details about incentive prizes and donors and for listings of winners. Meanwhile, to donate a

prize, call the UW hotline at Ext. 3636.

Oct. 9 is United Way agency day, with displays in the University Centre and a noon-hour barbecue on Branson Plaza. Learn about the United Way service agencies and enjoy a hot dog and pop for only \$2.

Campus Feedback Sought

continued from page 1

remarks were greeted with applause.

During the session, several HRPDG members presented senators with a number of issues and concerns that have arisen during the group's broad consultation with the University community since the draft policy was published in April.

First up for discussion was the scope of the preamble, principles and grounds. Debate centred on whether the University's policy should limit itself to the provisions of the Ontario Human Rights Code or go beyond. In its current form, the draft policy goes beyond the code, but initial feedback to the HRPDG has suggested there is no need for this and that it exposes the University to additional legal liability. Others have argued, however, that Ontario law doesn't go far enough.

Senators, too, were divided on this issue. There were suggestions that the policy had too many grounds, that some of its grounds were not inclusive enough and that others might be too restrictive. Senators did agree, however, that U of G's policy should be closely linked to the Human Rights Code.

Senate discussion focused next on concerns in the University community that the draft policy doesn't put enough emphasis on informal processes to deal with issues before they reach the written complaint stage. It has been suggested that mediation, discussion and advice play an expanded role in the initial phase, providing an avenue for both complainant and respondent to reach a mutually respectful resolution.

In a straw vote, the vast majority of senators supported expansion of informal processes, but some raised concerns about the ability of chairs and other line managers to intervene in human rights issues. Several senators proposed greater co-operation between line managers and the Human Rights and Equity Office.

Other concerns centred around the length of informal processes and the lack of statistics on campus human rights issues if fewer cases were formally reported.

The HRPDG also asked for Senate's input on issues related to accommodation for persons with disabilities. In campus feedback on the draft policy, concerns have been raised that although U of G has a policy on academic consideration for students with disabilities, there is nothing in

the human rights policy or elsewhere that clearly addresses the needs and issues of employees.

Another issue presented by the working group — the clarification of parallel or sequential processes — prompted much discussion among senators. The draft policy allows for alternative approaches to the complaints process through either the Human Rights and Equity Office or line managers. Concerns have been raised about the possibility of having two competing processes occurring simultaneously or sequentially with the possibility of being "tried twice."

It was also noted that under faculty policies, disciplinary measures can only be administered through peer review. Because faculty policies don't deal with respondents, students are left on the outside looking in, said OAC dean Rob McLaughlin, a HRPDG member. "This is hugely unfair and skewed," he said.

He added that faculty discipline is punitive rather than remedial and that faculty policies impose time constraints because a chair is required to act on a complaint within 20 days of hearing about it.

Prof. John Liefeld, Consumer Studies, noted that the faculty policy is not written in stone and could, in fact, be revised and harmonized with other policies on campus.

Prof. Bruce Koenig, Drama, a member of both HRPDG and the U of G Faculty Association executive, cautioned against developing a view of procedural options that had the effect of polarizing students and faculty; rather, he urged the working group to keep the objective of providing a neutral, fair and timely process firmly in mind.

Before the close of the session, alumni Senate member Bob Murray suggested that because alumni will be affected by the human rights policy, they should be more involved in shaping it. "Alumni can bring a different, knowledgeable and useful perspective," he said.

The HRPDG will continue to seek input on the draft policy until mid-October, then will regroup to consider the suggestions it has received. Anyone wishing to comment on the policy can write to the Human Rights and Equity Office, call the office at Ext. 3000, fax to 822-1131, send e-mail to hreinfo@hre.admin.uoguelph.ca or visit the Web site <http://www.uoguelph.ca/hre>.

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HOCKEY STAR SHINES IN DEFENCE OF CANADA

The Bobby Orr of women's hockey combines skill with a strong team ethic

BY ALEXANDER WOOLEY

IF YOU'RE TIRED OF THE HISTRIONICS of today's pampered and preening professional athletes, a new documentary airing next spring on CBC about Canada's national women's hockey team — featuring U of G graduate and team defence player Cassie Campbell — will be must-see TV.

National Film Board director Lynne Wright and her camera crew followed a group of players over the course of several months. Taking a starring role was Campbell, who graduated from Guelph this spring with a BA in sociology.

"They filmed me being both a hockey player and a student," she says. "On campus, we were at the arena, the library and the Arboretum. They filmed me in class — that was embarrassing because here was this camera crew surrounding me in this lecture hall, and everyone around was asking: 'Who is she, why are they filming her?'"

Wright says the one-hour film, as yet untitled, will strike a chord with those who recall a time when individual skills and finesse were at the forefront of Canada's most popular sport. But more than that, she believes this particular team is stocked with excellent ambassadors for both the country and hockey.

"I hope viewers will be excited by the calibre of play and by the calibre of women playing," she says. "Because this is really a most appealing and talented group of women. They're warm and funny bunch of people. I think the film will open eyes: 'Hey, world, look what we have here!'" Wright credits NFB producer Silva Basmajian with the concept for the project. It was Basmajian who some years ago produced the critically acclaimed CBC documentary *Baseball Girls*.

Campbell's ties with U of G run intertwined with those to her favorite sport. As an undergraduate, she was captain of the varsity women's hockey team, leading it to the OWIAA championship in 1994/95. And although she's now left the University, she hasn't really gone away — she plans to return next year to earn a degree in nutrition. She says her ultimate goal is to either become a dietitian or get into broadcasting.

Wright was not a hockey fan before she started the docu-



mentary, but says she became one after watching the grace of the women's game. For Campbell, the love affair has been close to lifelong. "I love it because it's a team sport where you meet a lot of great people, and there's a certain amount of unpre-

EVERYONE AROUND

WAS ASKING: 'WHO IS SHE, WHY

ARE THEY FILMING HER?'

dictability about the game. That allows you to be creative and adjust to situations."

She took up hockey at age six — "because my brother was playing" — then just kept getting better, making the women's national team in 1994. She thinks the fires of widespread public interest

in women's hockey were sparked by the team's dramatic world championship win in Kitchener this April and will be stoked by the NFB documentary and by the Winter Olympics next February in Japan. She and the other members of the national team will be trying out for the Olympics this fall.

Campbell has managed to keep her feet on the ground (and her skates on the ice) despite insistent calls of fame and fortune, something of a rarity in women's team sports. She recently returned from a Florida photo shoot that will have her on the label of Campbell's Soup cans later this fall, alongside Don Cherry. The entire national team is sponsored by Nike, and Campbell has a personal endorsement deal in the works with a major breakfast cereal maker. And last month, as part of a promotion, she was filmed skating around fabled Joe Louis Arena in Detroit with Red Wings star Brendan Shanahan.

Campbell has managed to fit all this into a gruelling schedule that involves training six days a week in Calgary throughout the fall.

Todd Cox, U of G's women's hockey coach, says Campbell shines because she combines immense skill with a team ethic. "She's one of the two best women defencemen in the world — if

she's not number one, she's no lower than two. She's a great skater and passer and can make end-to-end rushes — in short, she's the Bobby Orr of women's hockey. But best of all, she's a team player. She'll work hard to set up a teammate with an easy goal."

At the world championship in Kitchener, Campbell's global standing was confirmed when she was named a first-team all-star.

Besides filming her at home and at U of G, the NFB crew followed Campbell and the other players as they went on the road to an earlier training camp in Calgary and to the world championship. The camera lens will also chart the fortunes of the team at the Three-Nations Cup in Lake Placid, N.Y., this December.

After all the travelling, Campbell says she'll be happy to be back on familiar ground. "It was great being able to take this film crew around the campus I'd called home for four years, great to have the opportunity to show off the University. I know I enjoyed being at Guelph so much — that's why I'm coming back."

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THE ONGOING MISUNDERSTANDING

"To my mind, English Canada's refusal to recognize Quebec as a distinct society is the most ludicrous episode I have seen in my long life in politics."

On Sept. 25, former Quebec premier Jacques Parizeau addressed an audience of 500 at an evening lecture in Peter Clark Hall. In an earlier press conference, Parizeau said that as a former professor, he felt most at home on a university campus. He received his PhD from the London School of Economics and joined his first Quebec cabinet in 1962 under then premier Jean Lesage. Now 67, Parizeau said that age has made him even more militant in the cause of Quebec independence, rather than having a mellowing effect. The following is a summary of his lecture on "The Ongoing Misunderstanding: Two Peoples — 10 Provvinces."

THE CALGARY STATEMENT BY THE nine provincial premiers a few days ago came to me as a shock. I have still not quite recovered. They say Quebec should be considered unique in its cultural characteristics and equal to the other provinces in terms of all constitutional matters. Obviously, we English-speaking and French-speaking participants in the great Canadian debate understand each other less and less.

The misunderstanding began with the Charlottetown agreement that created Canada. The French-speaking Fathers of Confederation thought and said that Canada's two founding peoples had arrived at an agreement to set up a confederal pact. Provincial structures were not the sacred cows they would later become. After all, the French did not then have a province of their own. For the previous quarter of a century, they had belonged to a Union of Lower and Upper Canada imposed on them after the uprising of 1837/38. At that time, Lower Canada had no public debt. Upper Canada had a large one. The union was a way to shift the burden.

To many of the Quebec people — Latin, Roman Catholic, rural, largely illiterate and somewhat insecure because of the Conquest of a century before — such concerns were out-

weighed by their acceptance of a new country that would be founded, created by two peoples, thus, in a sense, redeeming the defeat of 1760 and making way for the future.

Sir John A. Macdonald's view was quite different. He envisioned the building of a nation from sea to sea having a central federal government with the powers and the resources to develop east-west relations rather than yielding to the

a multicultural society, destroyed the very idea of the two founding peoples. Quebecers were not even recognized as a people and would never be. If all citizens were equal under the charter, then all provinces were also equal, and there would be no special status for Quebec. Canada's nationalism was good, but Quebec's nationalism was bad, backward looking. Integration was the watchword for the end of the 20th century.

'LET US GO ON DISCUSSING THE SEX OF ANGELS.'

'THE SUBJECT OFFERS ENDLESS POSSIBILITIES.'

threat of north-south integration that was looming across the continent. Canada was the answer, within the British Empire, to southward expansion. Quebecers would once again have a legislature, which they had first enjoyed under the British in 1791. They would organize their own affairs, be grateful and stay out of serious matters.

Pierre Trudeau brought in an entirely new vision of Canada. The Charter of Rights imposed

For the last 30 years now, the war for the minds of French-speaking Quebecers, torn between two countries and two visions, has been raging. Quebec nationalists have emphasized pride of achievement in business, culture and politics and the opportunities offered to those who assume responsibility for themselves.

The federalist strategy had been to use the principles I mentioned earlier, the fear of the unknown,

uncertainty regarding the future and, above all, economic fear. After all, Quebecers have a great deal. Why risk losing it?

To my mind, English Canada's refusal to recognize Quebec as a distinct society is the most ludicrous episode I have seen in my long life in politics. Despite confirmation from the most famous lawyers that the cause could not have any legal repercussions, it was still not accepted.

I have been accused of being responsible for the failure of the Meech Lake Accord. It is possible. As leader of the Opposition, all I did was to pester my prime minister so that he would not give an inch on a proposal that, even though it had become a symbol or flag, was still only childish and puny. Maurice Duplessis, Jean Lesage, Daniel Johnson Sr. and René Lévesque must have turned in their graves.

From founding people to special status to associated state to sovereign country to distinct society — it's enough to leave one speechless, except that speechlessness is not an option for politicians. And now, since Calgary, uniqueness. Next time, all Quebecers will be allowed to wear a medal at public functions.

It will not be easy for sovereigntists for a while, but sovereigntists and Quebec federalists alike will take heart in Robert Bourassa's statement in the National Assembly the night of the failure of the Meech Lake Accord, in which he had invested so much of himself: "Today and forever, Quebec is master of its own choices."

Back to the uniqueness and to Calgary. In 1453, the Turks finally conquered Constantinople. While they were climbing the walls, the wise men of the city had congregated to discuss a hot topic: "What sex are angels?"

Let us go on discussing the sex of angels. The subject offers endless possibilities. As far as Ottawa is concerned, the Turks are still a couple of years away.



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THE 1997 PRESIDENT'S SCHOLARSHIPS



President's Message

I WOULD LIKE TO TAKE this opportunity to congratulate the 1997 recipients of the President's Scholarship and to wish them well in their scholastic endeavors. They join a prestigious group of past and present scholars at the University of Guelph and have much to look forward to.

The President's Scholarship exists to recognize exceptional first-year students for outstanding academic achievement and contributions to school and community. In the 11 years the scholarships have been awarded, campus life at the University of Guelph has been enhanced by the presence of 128 President's Scholars, including the 12 deserving young people receiving the scholarship this year, who are profiled on these pages.

Students selected as President's Scholars are among the top student achievers in Canada. Many past scholars have gone on to great success in graduate and professional school and such professions as medicine, law and business. But we do not measure the success of our President's Scholars on academic accomplishment alone. Equally important to us is their contribution to the University of Guelph and the community at large, whether it be through athletics, artistic endeavors, volunteerism, involvement in student government or participation on the University's Senate or Board of Governors.

The University of Guelph strives to provide its students with an environment that instills in them a commitment both to high academic achievement and good citizenship. Our learning objectives strive to foster a lifelong love of learning, independence of thought, moral and esthetic maturity, global understanding and an understanding of forms of inquiry.

The University of Guelph salutes the achievements of its President's Scholars and their ongoing efforts to make the world a better place for themselves and others.



Twelve of Canada's brightest students are the newest recipients of the University of Guelph's prestigious President's Scholarships.

PHOTO BY MARTIN SCHWALBE

President's Scholars rank high in leadership and academic ability

THE 12 ENTERING students who are chosen as President's Scholars each year by the University of Guelph are among the brightest and best young people in Canada. The President's Scholarship — valued at \$20,000 over eight semesters — is the University's most prestigious entrance scholarship, recognizing outstanding academic ability and contributions to school and community. The winners are truly national in origin — President's Scholarships have been awarded to students from across the country.

Candidates for the President's Scholarship are students who have achieved overall excellence. They are chosen for leadership as well as academic ability, and many have talents and interests in such fields as music, drama, science, the environment, politics and athletics. They are leaders in student government, participants in international development and envi-

ronmental projects, and volunteers in their communities. They are committed and disciplined students, dedicated to making the world a better place. They come to the University of Guelph with endorsements from teachers, principals, municipal politicians, coaches, religious leaders, members of Parliament and representatives of many other segments of their communities.

Successful candidates for the President's Scholarship are required to maintain a high academic standard and show leadership on campus. Past recipients of the scholarship have made a mark on the University and the community by providing leadership in student government, residence life, athletics and social-action groups; enriching the artistic life of the University with their talents in art, drama and music; and serving as volunteers in the Guelph community.

Previous winners — the scholar-

ship program is now in its 11th year — are now established in professional careers and advanced study programs. Since 1987, the President's Scholarship has been awarded to 128 students.

The scholarship program was inaugurated by then U of G president Burton Matthews and continued under the auspices of president Brian Segal and the current president, Mordechai Rozanski.

A major fund-raising effort is under way to complete the endowment of the 12 scholarships. To date, 10 have been fully endowed. Donors include the Vander Pol family of Blenheim, Ont., who recently endowed two scholarships; Cecil H. Franklin, former chair of Guelph's Board of Governors, and Ingrid Franklin; the estate of Charles S. Humphrey, former president of Hart Chemicals and a longtime friend of the University; the estate of Jack R.

Longstaffe, a former executive of Renfrew Electric; the estate of Lillian Stewart Usher; and the late Fred Metcalf, an honorary chair of Maclean Hunter and a friend of the University, and his wife, Kathleen.

Patrick Lett, a B.Sc. and M.Sc. graduate of Guelph, supports two President's Scholarships named in honor of former football coach Dick Brown, who served as a role model and friend to many student athletes. Another of the scholarships is named the Burton C. Matthews President's Scholarship.

Profiled on these pages are the 1997 President's Scholars, who are embarking on one of the most exciting and challenging times of their lives. For information about applying to the University of Guelph's President's Scholarship program, see your principal or guidance counsellor for more details. Principals must nominate candidates by April 1.

The University of Guelph strives to provide its students with an environment that instills in them a commitment both to high academic achievement and good citizenship.

The 1997 President

'There is an entire world of cultures, ideas and philosophies for me to encounter. I want the chance to discover them'



RICHARD APPIAH

RICHARD APPIAH, a graduate of Cathedral High School in Hamilton, Ont., plans to study political studies at the University of Guelph.

"There is an entire world of cultures, ideas and philosophies for me to encounter. I want the chance to discover them in a place that I can call home. That place, to me, is the University of Guelph, which is why I chose it for my postsecondary education. It has one of the best scholarship programs in the nation, where one is challenged to develop his or her leadership and academic abilities through the betterment of society and the pursuit of moral and scientific truths. It is here I will prepare myself for a career in law or education, two fields in which one is asked to turn ignorance into knowledge and knowledge into justice."

Involvement during high school career:

- admission average of 91.5 per cent
- Student Council president for two years
- winner of Harry Jerome Leadership Award
- representative of Hamilton-Wentworth Council on Police, Race and Community Relations
- member of debating team
- member of track and field team
- served on Violence Prevention Committee
- served on Teens Supporting Teens group
- ambassador to World Leadership Congress of Hugh O'Brien Foundation
- winner of Bishop's Gold Medal for academics and leadership
- speaker at Hamilton City Hall for United Nations International Day for the Elimination of Racial Discrimination
- master of ceremonies for Hamilton-Wentworth Separate School Board Music Festival.



TYSON BEACH

TYSON BEACH, a graduate of Centennial Secondary School in Belleville, Ont., plans to study human kinetics at the University of Guelph. Designated Dick Brown Scholar.

"I was attracted to the University of Guelph because it has a unique science-oriented human kinetics program, and I had a chance to be part of the football team. There is a friendly atmosphere here that made me feel at home right away. I am motivated by a desire to do well at school; my long-term goal is to aim for a career in sports medicine."

Involvement during high school career:

- 93.1-per-cent admission average
- named most valuable player in National Under-19 Football Tournament
- team captain of school football team for three years
- captain of the varsity hockey team for two years
- involved in fund raising for academics and athletics
- volunteer tutor
- coached minor ball hockey and minor baseball in Belleville; hockey team won provincial championship in 1995
- spoke at Grade 8 orientation and acted as tour guide
- competed in representative hockey
- supervised weight room
- named Athlete of the Year by City of Belleville.



D.J. COOK

D.J. COOK, a graduate of I.E. Weldon Secondary School in Lindsay, Ont., plans to study biomedical sciences.

"The University of Guelph offers a highly reputed biomedical sciences program in a comfortable academic and neighborly social environment. This combination makes Guelph the ideal setting to achieve my goals."

Involvement during high school career:

- 91.3-per-cent admission average
- Bronze Medal in Senior Engineering at 1996 National Science Fair
- 1996 Alberta Energy Company Manning Award for Innovative Engineering
- lead and solo trumpet player with I.E. Weldon Secondary School Senior Jazz Ensemble
- member of both senior and junior football teams
- Lindsay Kinsmen Band drum major
- private trumpet teacher
- volunteer with Ducks Unlimited
- peer tutor for Science Fair projects and computer sciences
- volunteer at Peterborough Civic Hospital
- president of high school band executive
- founded and directed junior stage band.



EMILY COWAN

EMILY COWAN, a graduate of Iroquois Ridge High School in Oakville, Ont., plans to study biochemistry at the University of Guelph.

"Guelph was the obvious choice for someone like myself entering the field of science. In addition to its academic excellence, the University appealed to me because it offers its students many opportunities in which to get involved. Guelph is unique in that it has several programs designed to make the transition to university life easier for first-year students — yet another factor that helped solidify my decision. I hope to further my knowledge of genetics through the biochemistry co-op program. I see myself working in a laboratory setting along with other researchers in the field of plant genetics at the end of my schooling."

Involvement during high school career:

- 95.5-per-cent admission average
- Iroquois Ridge High School Halton Student of Excellence Award for academic achievement and contributions to school life
- yearbook editor
- member of Student Parliament
- coach of intermediate Reach for the Top team
- peer tutor and peer helper
- candystriper at Oakville Trafalgar Memorial Hospital
- member of the Iroquois Against Drunk Driving and Drugs Committee
- member of the Wellness Committee
- highest score in school in the Euclid Math Contest in 1996
- ranked in top 2.8 per cent of all competitors in the Ontario Biology Competition
- forum participant in Oakville Youth Advisory Council.



PAULA FAGAN

PAULA FAGAN, a graduate of Bawating Collegiate and Vocational School in Sault Ste. Marie, Ont., plans to study biomedical sciences.

"As a high school graduate from Northern Ontario, I felt it was very important to select a university that would provide quality instruction and helpful, accessible services. It was apparent to me that the University of Guelph exceeded all my expectations. The personal touch of president Mordechai Rozanski telephoning me to offer me the scholarship made me feel quite honored and privileged to be accepting this prestigious award."

Involvement during high school career:

- 96.3-per-cent admission average
- executive secretary for Hugh O'Brien Youth Foundation
- certified Highland dance instructor
- first-place ranking in Kiwanis Music Festival
- most valuable distance runner on track-and-field team
- volunteer tutor
- executive member of Girls' Sports Council
- captain of varsity basketball team
- award for highest-standing average among class of 200
- first-class honors in Grade 8 Royal Conservatory of Music piano exams
- volunteer with Algoma AIDS Network
- went on student exchange to France.



ALEXANDRA HOLBROOK

ALEXANDRA HOLBROOK, a graduate of Centennial Collegiate Vocational Institute in Guelph, plans to study English.

"The President's Scholarship promotes something that has become integral to my way of life — good citizenship. Balancing academic success with my extracurricular, community and leadership activities required planning and support in high school, and I am very pleased to be entering an institution that will continue to encourage me in those pursuits. Ultimately, I hope to combine my love of writing with my interest in the human condition. Classical studies, drama, psychology and anthropology are a few possible avenues I plan to explore."

Involvement during high school career:

- 94.1-per-cent admission average
- composition about Remembrance Day published in *Canadian Living* magazine
- won John Bell Award at Ontario Student Classics Conference
- sings with school choirs and the Meistersingers in Guelph
- involved in social-action groups such as Global Outreach
- received school's Spartan Award for all-round achievement
- organized and mediated forum on education at school
- involved in Student Council
- assistant coach of Centennial wheelchair track team
- student representative on the Centennial Advisory Committee
- vice-president of the Latin Club
- involved in dramatic productions at high school and U of G.

Student's Scholars

them in a place that I can call home.'



PRASEEDHA JANAKIRAM

PRASEEDHA JANAKIRAM, a graduate of John F. Ross Collegiate Vocational Institute in Guelph, plans to study biological sciences.

"As I prepare to begin my university career, I am filled with a sense of excitement and anticipation. John F. Ross gave me five incredible years of teachers, classes, friends and opportunities, and I shall strive to live up to the faith they have in me. My goals, as I embark on this new venture, are to make the most of every experience, work to the best of my ability to realize my dreams, make new friendships while cultivating the old ones, and continue to learn from life. Although I am undecided as to what my future holds, I am interested in the possibilities of medicine or law. My ultimate goal is to work closely with people because I value and appreciate meaningful relationships. What I need most right now is the opportunity to try and discover where my strengths and my future lie."

Involvement during high school career:

- 94-per-cent admission average
- 1997 Canadian Merit Scholarship Foundation provincial award
- 1997 Young Women in Public Affairs Award from Zonta International
- volunteer co-ordinator at Guelph General Hospital
- awarded Spirit of Ross Award
- chair of human rights group
- co-editor of literary magazine
- soprano with concert choir
- student representative on Wellington County committee on anti-racism
- assistant laboratory technician at University of Guelph
- executive member of environment club
- played flute with senior concert band.



JULIA MACISAAC

JULIA MACISAAC, a graduate of St. David Catholic Secondary School in Waterloo, Ont., plans to study biomedical sciences at Guelph.

"There were many different factors that attracted me to the University of Guelph. It was extremely important that the university I chose had an excellent biomedical program, and I wanted to feel a real sense of community within the school. Guelph certainly possesses these traits. It was these, in conjunction with the beautiful campus and great nightlife, that won me over completely. In the future, I aspire to study medicine at the University of British Columbia, followed by a specialization in anesthesiology."

Involvement during high school career:

- 96.5-per-cent admission average
- Student Council president
- peer mediator
- received University of Toronto National Book Award
- member of Kitchener-Waterloo Philharmonic Choir
- member of basketball, swim and cross-country teams
- recipient of Student Volunteer Award
- recipient of Waterloo Region Roman Catholic Separate School Board Academic Excellence Award
- volunteer coach for Special Olympics swim team
- participated in Run for K-W Hospital
- recipient of Honor 'D' Award for extensive school involvement.



SILVIA MAGNOTTA

SILVIA MAGNOTTA, a graduate of Holy Cross Secondary School in St. Catharines, Ont., plans to study biological sciences. Designated Dick Brown Scholar.

"I was impressed with the beauty of the campus, the friendliness of the people and the range of programs offered at the University of Guelph. I plan to do a bachelor of science degree and enter the biomedical sciences program. My aspiration right now is to be a doctor."

Involvement during high school career:

- 92.5-per-cent admission average
- provincial champion in competitive gymnastics
- obtained brown belt in karate and jujitsu
- attained Grade 10 piano
- received Governor General's Medal
- valedictorian
- winner of Herzog's Memorial Award for community and academic contributions
- certified swimming instructor
- captain of cheerleading team
- captain of girls' volleyball team
- played clarinet in school band
- introduced Safe Schools Program.



DANIEL PETRIE

DANIEL PETRIE, a graduate of Queen Elizabeth High School in Halifax, N.S., plans to study mathematics, physics, chemistry and computing and information science.

"I chose the University of Guelph because it offers a wide range of programs that seem interesting and well-grounded in both principle and practical experience. The MPC program's small class sizes and enriched format were very appealing. My goals include working as a researcher, perhaps in a field of medicine. I want my university education to reflect my interest in science and my interest in art, and to achieve a balance that avoids concentrating my studies too narrowly or widely."

Involvement during high school career:

- 95.8-per-cent admission average
- recipient of Lieutenant-Governor's Medal
- volunteer with Nova Scotia Youth Help Line
- helped set up and administer computer lab at school
- member of school concert choir
- editor of school newspaper
- member of track team
- volunteer at Victoria General Hospital
- recipient of University of Toronto Book Award
- co-class representative on Student Council
- member of Video Centre Committee
- plays piano and acoustic bass.



MICHAEL STEPHENSON

MICHAEL STEPHENSON, a graduate of Merivale High School in Nepean, Ont., plans to study zoology.

"It was obvious to me that the University of Guelph worked hard for its students, and that's what really drew me to it. I loved the innovative approach it had taken, the breadth and depth of programs it offered and the wide range of extracurricular activities it possessed. I'll be pursuing my bachelor of science in zoology and then I'd like to attend the Ontario Veterinary College."

Involvement during high school career:

- 96.3-per-cent admission average
- student body president
- student representative on Carleton Board of Education's School Profile Advisory Committee
- member of Child and Youth Friendly Ottawa's Youth Advisory Committee
- recipient of Spirit Award
- head of school special events
- cast member of school musicals
- received Sears Drama Festival Award of Excellence
- student observer to Carleton Board of Education trustees' meetings
- math tutor
- Ontario Secondary School Students' Association cabinet minister
- attended Carleton Board of Education leadership camp.



NADIA ZELISKO

NADIA ZELISKO, a graduate of R.S. McLaughlin Collegiate Vocational Institute in Oshawa, Ont., plans to study psychology.

"The quality of the programs and the enthusiasm and dedication that exist at the University of Guelph are very appealing and made Guelph stand out as my number one choice to attend among all other universities. I intend to complete my degree in psychology and pursue a career in teaching. I plan to remain actively involved in a number of charitable organizations that service both children and special-needs members of our community."

Involvement during high school career:

- 91.6-per-cent admission average
- prime minister on Student Parliament
- represented school at Hugh O'Brien Youth Foundation
- tutor in math, French and English
- fund raiser for numerous charities
- organized annual food drive
- member of yearbook staff
- panelist at joint conference for Women in Educational Administration in Ontario
- met with John Snobelen to express concerns of students of Central East Ontario Secondary School Students' Association
- organized school assemblies
- tour guide and speaker for Grade 8 orientation
- group leader of workshops for Parents Against Drugs Program.

Recognizing the importance of graduate scholarships

AS FUNDING from government agencies spirals downward, graduate students have come to recognize the growing importance of scholarships from the University of Guelph. Ensuring that these awards are available — and that graduate school remains an obtainable goal — depends on a continued commitment to support students financially.

A university education is an expensive investment for students, a fact compounded for graduate students by the intensive year-round nature of their studies, which provides little opportunity for summer or part-time jobs. To defray these costs, Guelph annually offers 625 University Graduate Scholarships and 100 of the newly introduced Board of Graduate Studies Research Scholarships.

The U of G Graduate Scholarships are currently valued at \$2,000 and are offered on a semester basis. The Board of Graduate Studies Research Awards enable students to waive their Canadian tuition for a semester.

"Graduate students are a fundamental component of the research engine of the institution," says Prof. Alastair Summerlee, dean of graduate studies, "and finding ways to support them is critically important in the current economic climate."

Guelph prides itself on being a university that is both research-intensive and committed to putting the learner at the centre of all its endeavors. "Graduate studies are fundamental to both of these missions," says Summerlee. "In a time of tight funding, it's critical that we maintain and even increase graduate enrolment."

Where are they now?



1991 President's Scholar Jennifer Fletcher, right, celebrates the opening of a play by her former drama professor Judith Thompson, at the Tarragon Theatre in Toronto.

PRESIDENT'S SCHOLARSHIP winners gain admittance to a unique club, one that gives them social and academic advantages as well as financial benefits, say former scholarship recipients now involved in professional careers or graduate studies. They say their involvement in the program was a springboard to future goals and interests.

"It gave me greater motivation to apply what I learned and to have future hopes and dreams," says 1991 President's Scholar Harry Frielink. "It gave me the confidence and courage to think that what I was learning was important."

Since completing his undergraduate degree at Guelph, Frielink has vol-

unteered in Eastern Europe, teaching English as a second language, and has taught at a private school in Clinton, Ont. In the future, he plans to return to graduate school to study theology.

"The mentoring program (each President's Scholar is matched with a faculty mentor) was an asset," he adds. "It gave me exposure to professors I could develop relationships with."

Jennifer Fletcher, also a 1991 scholar, cites the good friendships she made through the President's Scholarship program as a primary benefit. A recent master's graduate of Guelph's drama program, she keeps in touch with many scholars from her year, even though she's now working at the University of Alberta in Edmonton to

establish its theatre archives and develop strategies for acquisitions.

"The financial assistance the scholarship provided was welcome," adds Fletcher, who participated in Senate and Interhall Council and sat on the President's Scholarship selection committee. "It helped free up time for me to do things at the University."

Jonathan Sherbino, a 1993 scholar now in his second year of medical school at the University of Ottawa, says the scholarship was a great asset on many levels.

"One of the strengths of the President's Scholarship program is that it frees you to experience life and the university environment beyond the classroom," he says. "It allows you to

discover other interests and abilities, and it encourages you to do so."

This summer, Sherbino worked in a rural hospital in central India, where he was involved in delivering babies, running clinics, assisting with major surgeries and travelling to remote nursing stations to attend to patients.

"The scholarship makes you recognize that education is a life process as well," he says.

Harry Stoddard, a 1987 scholar, is grateful for the close friendships he made while involved in the scholarship program.

"We were a close-knit bunch," he says. "It was nice to have a group of friends having a similar university experience."

Stoddard completed a master's degree in agricultural economics at Guelph, then returned to the family farm. Today, he and his wife, Sylvia, farm 500 acres of cash crops and run a farrow-to-finish hog operation in Bradford, Ont.

For Kirby Kalbfleisch, a 1991 scholar, the scholarship offered three major pluses — friendships, financial opportunity and mentoring.

"It was good to know highly motivated people," says Kalbfleisch, who is now studying in British Columbia to become a herbalist. She earned a degree in psychology and philosophy from Guelph, spent a year at law school, then took a year off to travel before starting her current studies.

Natalie Kontakos, a 1992 scholar now doing graduate work in epidemiology at the University of Toronto, says the scholarship did more than help finance her undergraduate education.

"Perhaps more important, it inspired me through the contact I had with faculty and with other scholars."

Our brightest and best

The University of Guelph has named 128 President's Scholars since the program started in 1987. Listed by home town and secondary school, here they are:

Amherst: Kathy Airless, Sean Dukelow, Adam Dukelow, General Amherst. **Aurora:** Lindsay Tomlinson, Aurora HS; Jonathan Sherbino, Dr. G.W. Williams SS. **Barrie:** Marty Beecroft, Eastview SS; Suzanne LeBlanc, St. Joseph's HS. **Belleville:** Tyson Beach, Centennial Secondary School. **Blackstock:** Jennifer Fletcher, Cartwright HS. **Bradford:** Harry Stoddard, Bradford DHS. **Brampton:** Christian Baldauf, Cardinal Leger SS. **Brantford:** Nancy Charlton, Pauline Johnson CVS. **Burlington:** Ryan Ness, M.M. Robinson HS; Jeremy Yethon, Nelson HS. **Cambridge:** Kelly Allison, Southwood SS. **Chesterville:** Rodney Merkley, North Dundas DHS. **Cornwall:** Sylvia Hall, St. Lawrence HS. **Dunrobin:** Julia White, West Carleton SS. **Dryden:** Marlo Bakala, Dryden High School. **Elmira:** Julie Corbett, Anne Wideman, Elmira DSS. **Fredericton, N.B.:** Sean Morrissey, Fredericton HS. **Glace Bay, N.S.:** Nathan MacDonald, Sydney Academy. **Gloucester:** Nicola Calder, James Kennedy, Colonel By SS. **Gravenhurst:** Andrew Weekes, Gravenhurst High School. **Griffith:** Kris Lehnhardt, Opeongo High School. **Guelph:** Philip Abbink, Kirsty Bell, Guelph CVI; Harry Frielink, Praseedha Janakiram, John F. Ross CVI; Alexandra Holbrook, Tim Mau, Centennial CVI; Laurie Halpenny, Piers Nash, Bishop Macdonell HS. **Halifax, N.S.:** Daniel Petrie, Queen Elizabeth High School. **Hamilton:** Crystal Dumitru, Derek Hatanaka, Westmount SS; Elaine Reynolds, Delta SS; Richard Appiah, Cathedral High School. **Harrow:** Brendon Larson, Harrow DHS. **Huntsville:** Elliot Welsh, Huntsville HS. **Jakarta, Indonesia:** Joost Lijjens,

Jakarta International School. **Kemptville:** JoAnna Leyenaar, Laurina Leyenaar, North Grenville DHS. **King:** Joshua Richardson, The Country Day School. **Kensington, P.E.I.:** Patti Thomas, Kensington Intermediate HS. **Kingston:** Danielle Charbonneau, Frontenach Secondary School; Meredith Hunter, Kingston CVI; Alison Moore, Loyalist CVI; Shawn Sanderson, Bayridge Secondary School. **Kitchener-Waterloo:** Kirby Ann Kalbfleisch, Christine Main, Bluevale CI; Shawn Cooper, Stephanie Oréficé, Eastwood CI. **Lindsay:** Anne Ellis, Scott Robertson, Lindsay CVI; Douglas James (D.J.) Cook, I.E. Weldon Secondary School. **London:** Suzi Camilleri, Paula Coutinho, Mark Rosati, Catholic Central HS; Kirk McMillan, Sir Wilfrid Laurier SS. **Markham:** Gordon Kee, Pickering College. **Meaford:** Jim Rush, Georgian Bay SS. **Mill Bay, B.C.:** Nicole Kennedy, Brentwood SS. **Milton:** Mark Myronyk, Victor Sprenger, Dan Walker, Milton DHS. **Mississauga:** David Dec, Glenforest SS; Natalie Kontakos, Lorne Park SS; Deborah Robinson, Erindale SS; April Kam, Father Michael Goetz SS. **Nepean:** Michael Stephenson, Merivale High School. **North Bay:** Kristi Adamo, Widdifield SS. **Oakville:** Emily Cowan, Iroquois Ridge High School. **Orleans:** Lisa Levesque, Sir Wilfrid Laurier SS. **Oshawa:** Nadia Zelisko, R.S. McLaughlin Collegiate and Vocational Institute. **Ottawa:** Emily Brundage, Brookfield High School; Barbara Johnston, Sir Robert Borden HS; Stephen Krajcarski, Chris Parent, Merivale HS; Stephanie Shanahan, Gleebe Collegiate Institute. **Parrsboro, N.S.:** Jennifer Dinaut, Parrsboro Regional. **Pembroke:** Colin van der Kuur, Champlain Senior HS. **Peterborough:** Jennifer Bowe, Peterborough CVS; Savita Chaudhari, Crystal Drummond, Adam Scott CVI. **Petersburg:**

Benjie Albrecht, Waterloo-Oxford DSS. **Sault Ste. Marie:** Paula Fagan, Gary Pateman, Bawating CVS. **Scarborough:** Harisuthan Subramaniam, Woburn Collegiate Institute. **South River:** Birgit Wand, Almaguin Highlands SS. **Springdale, Nfld.:** Sian French, Grant Collegiate. **Springhill, N.S.:** Don Ryan, Springhill Junior-Senior HS. **St. Catharines:** James Beecroft, Laura Secord SS; Claire Humphrey, St. Catharines CVS; Barry Liboiron, Sir Winston Churchill SS; Silvia Magnotta, Holy Cross SS. **Summerland, B.C.:** Colin Godwin, Summerland SS. **Sydenham:** Tyler Huehmer, Sydenham High School. **Sydney, N.S.:** Cory MacDonald, Sydney Academy. **Terrace, B.C.:** Christine Weber, Caledonia Senior SS. **Thunder Bay:** Kevin Belluz, Westgate CVI; Caroline Swerdlyk, St. Patrick HS. **Timmins:** Kiet-Nghi Cao, Timmins High and Vocational School. **Toronto:** Russell Bonduriansky, East York CI; Grase Kim, Don Mills CI; Laura Beattie, Andrea Hammell, Yona Lunsky, Mark McCutcheon, Earl Haig SS; Jeff Sumner, Denise Watt, Malvern Collegiate; Omer Yukseker, Jarvis Collegiate; Vanessa Tseng, Marc Garneau CI; Angelina Yee, Havergal College; Joanna Leech, North Toronto Collegiate Institute. **Trenton:** Alison Bachlet, Trenton High School. **Unionville:** Jason Brock, Unionville HS. **Victoria, B.C.:** Kristina Anderson, Belmont Senior SS, Andrea McCoy, Lester B. Pearson College of the Pacific; Juniper Glass, Esquimalt SS. **Waterford:** Jennifer McDonald, Waterford DHS. **Waterloo:** Julia MacIsaac, St. David Catholic Secondary School. **Whitby:** Stephanie Sears, Henry Street HS. **Windsor:** Mark Dragich, Vincent Massey SS. **Windsor, N.S.:** Sarah Campbell, King's-Edgell School; Sara McNorton, Catholic Central High School. **Woodstock:** Bronwyn Nader, Woodstock Collegiate Institute.

THE WRITE HONORABLE AUSTIN CLARKE

One of Canada's most esteemed and prolific authors helps U of G students do the 'write' thing

BY BARBARA CHANCE

HOW TO BE A WRITER

1. Sit down and write.
2. Write it over again.

THAT'S AN ABBREVIATED VERSION of the advice that renowned Canadian author Austin Clarke offers to young writers aspiring to follow in his footsteps. And he should know — he's been sitting down to write (and rewrite) himself into a pre-eminent place in Canadian literature for the past 35 years.

If you'd like to hear a longer version of Clarke's philosophy of writing, you're in luck. He's on campus this semester as writer-in-residence in the Department of English, doing one of the things he likes best — sharing his experience and knowledge with younger writers.

Teaching has long been an integral part of Clarke's writing career, which began in 1962 with the publication of his first book, *The Survivors of the Crossing*. Since then — in between writing 14 more books and working as a freelance broadcaster for CBC — he's done stints as visiting professor or writer-in-residence at a number of universities, including Yale, Duke, Brandeis, Texas and the University of Western Ontario.

What he enjoys most about these on-campus experiences is working one on one with students. "I get more personal satisfaction and can see the consequences when I'm working one on one," he says. He'll be doing that at Guelph, but also hopes to run weekly workshops to complement the individual work.

"I hope to meet as many people as require, want, would like assistance with their writing," he says. "If possible, I would also like to extend this assistance to the general public of the Guelph community. My priority is the University community, but if someone else is seriously interested, I would not mind assisting that person."

Clarke doesn't claim an ability to instill writing talent in anyone, "but I can point out some of the technical difficulties to be faced and some of the shortcuts to facing them."

Nor does he set himself up as the judge of who has writing talent and who does not. "I don't see my role as anything but encouragement. Writing is the most personal way in which a civilized person can express the truth, emotions and so on. You've got to handle the person engaged in this delicately. You don't want to stunt anyone's growth. You might be a bad writer today, but you might just



"YOU MIGHT BE A BAD WRITER TODAY, BUT YOU MIGHT JUST NEED ENCOURAGEMENT. YOU CAN'T DISCERN TODAY THE WAYS IN WHICH A YOUNG WRITER MIGHT DEVELOP."

need encouragement. You can't discern today the ways in which a young writer might develop in the coming days or years."

Clarke himself did not discern the writing career that lay ahead of him as he grew up in his native Barbados. As a teenager, he wrote poetry and hung out with other writers, but when he moved to Canada in 1955 to attend university, "I didn't intend to be a writer to the exclusion of everything else. I did not at all imagine that I would devote my life to this profession."

It was only after years of writing just on weekends, squeezing it in between his weekday work as an editor of trade publications, that he decided it was time to give full-time writing a chance. It was 1962. "I gave myself a year to see whether I could do it, to see

if this is what I was sent here to do." Within six months, his first novel was published by McClelland & Stewart.

Since then, he has built a reputation as a distinguished chronicler, particularly of the lives of black immigrants, producing seven more novels, five short-story collections and two memoirs. His most recent novel, *The Origin of Waves*, was published earlier this year to rave reviews and appeared on the *Maclean's* best-seller list. A selection of works from throughout his career was also published this year by Exile Editions in *The Austin Clarke Reader*.

Since the release of *The Origin of Waves*, Clarke has been busy promoting the book on a tour that took him across Canada from Halifax to Vancouver. This week, he and two fellow Canadian writers are lecturing and reading in the United States, where the itinerary includes Duke University in North Carolina, Morehouse College in Atlanta, the Embassy of Barbados in Washington and the Schomburg Museum in Harlem. They're billing their tour as "The Canadians Are Coming."

"Canadian literature is becoming universally popular and established," says Clarke. "It's exciting to be a Canadian writer today because of the freshness of what's being presented, the adventurousness in the writing and the emergence of a voice that is clearly and identifiably Canadian. We are far away from considering U.S. and British writing as imperialist models. Our writing is reflecting greater self-confidence. I think this is important in relation to the rising paranoia that Canada will be divided. If the politicians divide it, the artists will keep it together."

Clarke sees a groundswell of support for Canadian writing in the writers' festivals he attends across the country each year. "It is absolutely astounding to see how many people turn out at these festivals to sit on wet grass and listen to authors read."

He will be in the Department of English Tuesdays, Wednesdays and Thursdays until the end of December and is located in Room 435 of the MacKinnon Building. He can be reached at Ext. 3263.

Prof. Constance Rooke, associate vice-president (academic), encourages everyone on campus to take advantage of the opportunity to meet with Clarke. "He is one of our most distinguished Canadian writers, and it is a great honor and pleasure to have him here," she says. "He will be a marvellous addition to the creative and intellectual life of the University."

Focus on Freedom of Expression

Summer reading program introduces students to academic ethos of the University

FREEDOM OF EXPRESSION was a key theme of this year's orientation week for new students. For the second year in a row, the first-year class took part in the innovative and prize-winning summer reading program administered by the Office of First Year Studies (OFYS).

In August, the office mailed out to students a package of five magazine articles, provocative test cases dealing with topics such as censorship of the Internet, television's treatment of controversial social issues and the rights of the individual versus the collective right. Students were asked to study the readings and be prepared to discuss them during orientation week.

Shelly Birnie-Lefcovitch, co-director of OFYS, sees the program's benefits as threefold. "First, it introduces students to the academic ethos of the University. Second, it changes the nature of orientation from pure-

ly social to something that also incorporates scholarly discussion. Third, it allows students and faculty to meet in an informal way, yet a way that has a clear purpose that facilitates interaction."

Last year, the pilot project of the summer reading program won the Program/Service of the Year Award from the Student Affairs and Services

Association of Canada.

The program was kicked off on the first day of orientation by president Mordechai Rozanski's welcome address at War Memorial Hall on "Freedom of Expression." In part, he said: "Freedom of expression is not just something to be invoked at welcome assemblies. It is a living concept, which we encourage, respect

and try to practise every day. . . . Freedom of expression is practised daily in your classrooms — as you challenge accepted wisdom, pursue new knowledge and truth, and engage in debate with the finest minds of your generation. It surfaces in the hallways of your residence and in questions raised by the impact of the Internet. And in its most chal-

lenging appearance, we confront it in the tension that can arise between our right to free expression and our ethical obligation to practise it with respect and sensitivity for the rights of others."

Afterwards, students broke up into groups of 15 to 30 for a 90-minute discussion about the issues raised by the readings. Discussion leaders were faculty, staff and senior academic administrators, including the president and provost. Birnie-Lefcovitch says discussions were "lively and energetic," with many continuing well past the scheduled finish time.

Proceeds support humanitarianism

continued from page 1

British author Salman Rushdie and Nobel Peace Prize winner Aung San Suu Kyi in Burma. Closer to home, it has been an earnest protector of freedom of expression, particularly against libel chill and Canada Customs' horder book seizures.

With a tiny permanent staff and

little overhead, PEN Canada is able to devote virtually all proceeds from the sale of *Writing Home* to its humanitarian efforts, says Rooke. And the lion's share of the \$20 readers pay for the book goes straight to PEN because even McLelland & Stewart donates its labor to the cause, he says.

Rooke is confident that *Writing Home* will post good sales. "I think part of the success of this book is that meditations on home open up to other things. The idea of home has been taken up by these writers in remarkably personal ways."

PEN Canada is counting on it. The organization's funding comes primarily from members' dues, an annual benefit and the sale of its anthologies; it receives no government funding.

At the end of September, brisk sales were recorded at Toronto's downtown "Word on the Street" festival, which featured a PEN parkside cafe and readings by many of the anthology's contributors, including Constance Rooke and Ricci, as well as actor Sonja Smits reading a piece by playwright and U of G drama professor Judith Thompson.

Writing Home is available at bookstores everywhere, including U of G.

BY ALEXANDER WOOLEY

A Cyber Voice Could Be Your Choice

Computer survey system would allow more citizens to participate in the planning and design process in their community

GUELPH CITIZENS may soon be able to have their say on public projects by casting their vote at a computerized version of the town hall meeting. It's all thanks to a U of G graduate who's putting a new twist on data collection.

The City of Guelph is trying to improve public participation in its planning decisions. Steve Barnhart, a graduate of Guelph's master of landscape architecture program, thinks he has the solution. He's designed a computer survey system that draws opinions from Guelph residents about their physical environment.

He says the advantage of his approach is that it collects information in an unobtrusive, engaging and time-saving way.

"It's not just the design that's important," he says. "The key is getting information back."

A hot topic in Guelph right now is a proposed twin-pad arena to be located in the downtown core. The city wants citizens to have their say on its exact location, and that's where Barnhart's program kicks in. He has used the arena proposal as a basis for his system.

Barnhart has created a three-dimensional computer model of U of G's twin-pad arena. The simulation represents the approximate visual scale of the proposed arena. With an electronic kiosk, he could gather citizen opinion on the potential site by creating different visualizations of downtown locations. Using a touch screen, citizens would be presented with the images and questions pertaining to them.

The survey would require no typing; instead, respondents would answer questions by touching one of several on-screen photographs or answer choices. The visualizations would help provide additional context over tradi-

tional map-based information.

"It's an opportunity for citizens to comment on design projects and ultimately to participate in the planning and design process in their community," says Barnhart. "If you can make something engaging enough, you can interest people to become involved."

As a landscape architect, he has always been captivated with the physical environment. During his graduate work, he worked with Prof. Nate Perkins to design and implement a computer survey system that evaluates people's reactions to different physical environments at the Home-wood Health Centre in Guelph.

Now, his method would allow concerned citizens who would not or could not attend town-hall meetings to voice their opinions, enabling the

city to reach a greater percentage of the population.

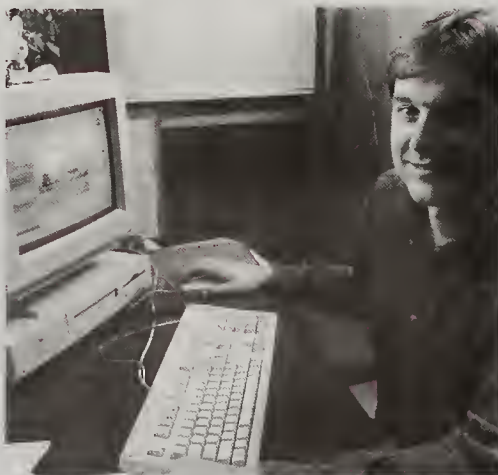
"This way, the city would get the information it requires on an ongoing basis without getting into a survey mindset," says Barnhart.

This approach isn't intended to replace public meetings, he stresses. It introduces a flexible medium that would allow city planning and citizen involvement to come together in a mutually beneficial way.

"The city needs to find a way of allowing people to voice opinions and to gather quantitative data," he says.

Barnhart recently designed a sample survey on the Internet for feedback. His Web address is www.sen-tex.net/~skb.

BY LUCIA DE STEFANO
OFFICE OF RESEARCH



MLA graduate Steve Barnhart

PHOTO BY MARTIN SCHWALBE

So You Wanna Be in Soy Business?

After a successful first year, a novel soybean innovation contest for students is branching out to U of G's new research and education partners

PROJECT SOY (Soybean Opportunities for Youth), a joint venture of Guelph-based First Line Seeds and U of G, is being extended this year to the University's new partners at Ridgeway College, Kemptville College and Collège d'Alfred.

First Line Seeds is making participation worth students' while — cash prizes of \$2,500, \$1,000 and \$500 will be granted for first, second and third place in graduate and undergraduate categories. Registration and project proposals for this year's contest must be received by Nov. 21. Final projects must be completed by March 27, 1998.

Through developing new and

innovative uses for soybean marketing, research and innovation, the contest is designed to give students a chance to gain practical skills while establishing links with the industry.

"This competition is a great opportunity for students," says Peter Hannam, president of First Line Seeds. "Project SOY gives them an additional chance to focus on their strengths and interests outside of school and develop a commercial product or idea before they even graduate."

Last year's first-place winners were two fourth-year students from the Department of Food Science. The duo developed a fruit-based soy custard,

a competitively priced product that targets health-conscious consumers looking for alternative desserts.

"I was elated with the success of Project SOY last year," says Hannam. "It's inspiring to see young minds come up with new and imaginative ideas. Last year's winners successfully identified a need and a market segment to give their product great potential."

Project SOY is timely because farmers' interest in soybeans is at an all-time high, with more than two million acres planted in Ontario this year, making it the largest crop (in total acreage) in Ontario.

First Line Seeds, headquartered at

Woodrill Farms just east of Guelph, has been a strong supporter of U of G teaching and research for years. The company has had an ongoing link with various Guelph faculty involved in soybean research and marketing.

"We're dedicated to the industry," says Hannam. "Supporting those who contribute to it significantly, such as University of Guelph researchers and students, is part of our commitment to Guelph's reputation as a national leader of agricultural research and education."

For more information, check out the Web page www.soybeans.com/projectsoy.

BY JENNY TYE
OFFICE OF RESEARCH

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LETTERS

RAISING A SPIRITUAL FLAG

I DRANK MY COFFEE OUTSIDE in the new park on the southwest corner of the University Centre. Just before coming outside, I had tried to find direction with a troubled person who had met a financial crunch. My spirit needed renewal and hope.

As I stood in the park's unfinished gravel centre surrounded by green grass, blooming plants and trees, looking at its antique greenhouse, I pictured yesterday's students. I imagined them currently at work somewhere with the sense of freedom I heard just then exploding from a sparrow in the nearby tree. I hoped the students who were developing the park would be shaped with the same courage and freedom of that bird.

Thank you, alumni, for your dedication and courage to plant this place of hope in our age dominated by technology and right sizing. Thank you for raising this spiritual flag for our zeal. Thank you for feeding our spirit, renewing us to fight the good fight of hope, to stay the course of a well-rounded humanity bigger than dollars and right structure. Thank you for this window that refreshes our spirits, re-creating us to know the context of technology and our restructuring. God bless you.

REV. ED DEN HAAN
CAMPUS MINISTRY

RHETORIC AND WASTE!

OUR UNIVERSITY needs to attend to the details of sustainable development. We enunciate the rhetoric in

our so-called strategic plans, brochures and other media materials. The details of our daily lives, however, are still far from the reality where espoused values and behaviors match.

We employ a "Madvac" vehicle and operator to waste time, energy and money vacuuming leaves (!), individual pieces of paper and other litter. This absurd practice amazes and disgusts me. Our students are, to put it mildly, puzzled. Why not let the leaves find their resting place and bag them in three- or four-week cycles? Why not use a bristle brush? They work!

Please, as Schumacher and so-called Third World folk have told and retold us, let's use appropriate technology, minimize the use of non-renewable inputs and behave as if there really is only one planet. This we do by attending to the details. The "Madvac" is environmental madness. Let us terminate this perverse practice immediately.

PROF. DAVID DOUGLAS
UNIVERSITY SCHOOL OF RURAL
PLANNING AND DEVELOPMENT

FEW MEN STUDY LANGUAGES

I READ WITH SOME INTEREST your article "Engineers of Change" in the Sept. 24 issue of *At Guelph*, in which you report that the engineering program on this campus has an enrolment that is 37-per-cent female (compared with a national average of 20 per cent).

It is indeed a matter of some congratulation and pride that so many young women on our campus are taking what was traditionally a male subject. But what about the other side of

the coin? How many young men on our campus take language courses?

A year or two back, when I — an aging male professor setting out for a sabbatical in France (because my kids are in French immersion) — took a French course, in a class of 45 there was only one other male. And he was a francophone! My experience was that this course was no exception.

In a country with two official languages, in a world where barriers are dropping and where the ability to talk to people in their language is highly desirable culturally and professionally, are we at Guelph neglecting the needs of one sex as we congratulate ourselves on our successes with the other sex?

What I can say from my own experience is that the problem does not lie in the quality of the teaching. After 30 years on one side of the classroom, I was humbled by being on the other side — not because of my position, which I rather enjoyed, but by finding how many of my colleagues are so much better at our job than I.

PROF. MICHAEL RUSE
PHILOSOPHY AND ZOOLOGY

NESTLE OFFERS UPDATE

Nestlé Canada has received attention from the *Ontarian* in 1997. Readers of *At Guelph* may like further information about Nestlé, specifically our current activities in food-related research, our involvement with U of G and an update on infant formula issues.

Research
Nestlé Canada is part of the world's leading food company, the Swiss-

based Nestlé SA. Since the company was founded in 1867, its growth has come from providing wholesome, nutritious and popular foods to consumers. Our quest to develop innovative products for healthy diets continues. Nestlé is the largest corporate funder of food research and nutritional science in the world. Some examples include the muscular atrophy studies conducted with NASA, our metabolic research with athletes, plus Nestlé's involvement with clean water demonstration projects in Calcutta and South Africa.

University of Guelph
Our goal is to foster learning and independent research in food sciences and related disciplines to benefit consumers and society. This is a key reason Nestlé Canada decided to contribute to U of G, a learning centre renowned for its expert work in agricultural and food science.

How a university sets its policies regarding donations and governance are issues each university must resolve on its own. Nestlé is proud to have been a major donor to Guelph's 1987 capital campaign. We are also proud that Keith Conklin, president of Nestlé Foods Group, was invited in 1996 to serve on the University's Board of Governors as an external member. This board deals with University policies, rather than specific administrative or academic issues. Keith Conklin's participation gives Guelph access to another individual with business acumen valuable in the competitive world of fund raising.

Infant formula

The worldwide marketing of infant formula has grown exceedingly complex in the past 25 years. Unfortunately, much information circulated today is outdated and overly simplistic.

Henri Nestlé, our company's founder, invented the first scientifically developed infant food and formula for newborns who could not be breast-fed. For 130 years, countless babies have thrived thanks to such Nestlé products. We continue to market infant formula as the best alternative to breast milk if a mother needs or chooses a replacement or supplement during her baby's first year of life.

To ensure Nestlé infant formula is marketed according to World Health Organization recommendations, we've developed strict internal policies and procedures for implementation in developing countries. We are among those calling for impartial and government-sponsored monitoring of infant formula marketing practices.

We also believe that those who share concerns about infants' health need to work together and make lasting advances on fundamental issues of child health and nutrition. Governments, academics, health professionals, businesses and citizens must find ways to break the destructive cycle of poverty, unclean water and inadequate medical care, which put too many of the world's children at risk.

MARILYN KNOX
SENIOR VICE-PRESIDENT
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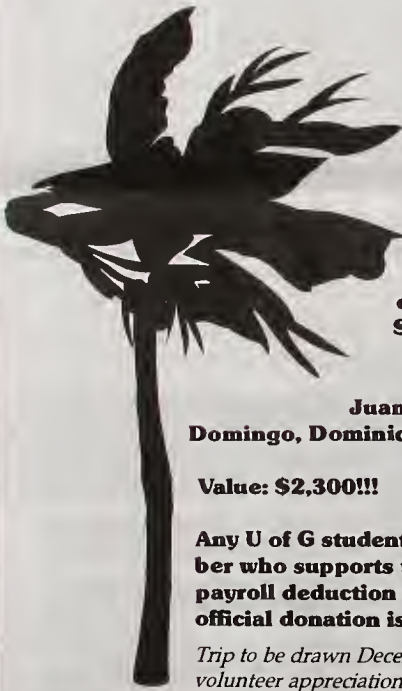


BARBECUE A WARM WELCOME FOR NEW STUDENTS

Soggy weather didn't daunt some 600 first-year students from attending the U of G Alumni Association's eighth annual barbecue for new students Oct. 2. About 45 alumni and student volunteers were on hand to serve up the grub and share their U of G experiences with the newcomers. The barbecue was sponsored by Marx Orchard Organically Grown Apples, Hospitality Services, J.M. Schneider, Small Fry, Dairy World Fair-lee and Development and Public Affairs.

PHOTO BY TRINA KOSTER

Go the United Way this winter... to the Dominican Republic!



This year's grand prize for the U of G United Way incentive draw is a one-week Sunflight Holidays for two to Sun Village Costa Linda, on the Juan Dolio beach in Santo Domingo, Dominican Republic.

Value: \$2,300!!!

Any U of G student, staff or faculty member who supports the campaign through payroll deduction or a one-time receipted, official donation is eligible to win.

Trip to be drawn December 8 at the United Way volunteer appreciation event.

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Golding Travel at 836-4940.**

AWARDS

The Canadian Cystic Fibrosis Foundation has awarded Prof. Joseph Lam, Microbiology, \$32,260 a year for three years for a fellowship for Myriam Belanger to work on the project "Characterization of the O-Antigen Lipopolysaccharide Gene Cluster of *Pseudomonas aeruginosa* Serotype O6 and Identification of Novel Antimicrobial Targets."

Prof. Bruce Hunter, Pathobiology, has received \$32,200 from the Canadian Mink Breeders Association for an "Investigation of Cellulitis and Foot-Pad Problems in Mink and the Association with *Staphylococcus Sp.*"

The Canadian Mushroom Growers' Association has awarded \$228,204 to Dan Rinker of the Horticultural Research Institute of Ontario at Vineland for "Control Strategies Against Green Mould Disease in Commercial Mushrooms."

Prof. Paul Hebert, Zoology, was awarded \$10,000 by the Canadian National Exhibition to study "The Future of Arctic Char Aquaculture." Hebert also received \$24,912 from Industry Canada for the project "Life in Canada's Aquatic Environments."

The Cancer Research Society, Inc. has provided \$45,000 a year for two years to Prof. Jim Kirkland, Human Biology and Nutritional Sciences, to study "Poly (ADP-Ribose) Polymerase, Zinc Deficiency and DNA Damage" and \$44,700 a year for two years to Prof. Frances Sharom, Chemistry and Biochemistry, for her work on "High-Affinity Peptide Chemosensitizers for P-Glycoprotein-Mediated Multidrug Resistance."

Prof. Truman Phillips, Agricultural Economics and Business, was awarded \$370,000 by the Dairy Farmers of Ontario for a chair in dairy policy.

Ecovai Technologies Inc. awarded \$13,230 to Prof. Andrew Gordon, Environmental Biology, "To Evaluate Nutrient (N,P,K) Uptake by Tree Seedlings Treated with Ecovai Fertilizers."

Prof. Nigel Bunce, Chemistry and Biochemistry, was awarded \$10,000 by Environment Canada for his work on "Reactions of Polycyclic Aromatic Compounds with Hydroxyl Radicals Under Simulated Atmospheric Conditions." He also received \$11,000 a year for two years from NSERC and Syncrude Canada Ltd./NWRI to study "Environmental Toxicology of Base/Neutral Compounds from Athabasca Oil Sands Fine Tailings."

Prof. Kimberly Rollins, Agricultural Economics and Business, received \$20,080 from Chippewas of Nawash First Nation for a project titled "To Interpret the Concepts of Subsistence Rights, Commercial Rights and Commercial/Subsistence Rights to Aboriginal Fisheries in the Context of Economics and the Court's Use of These Terms." She also received \$7,000 from Environment Canada for "Estimating the Value of Public Services to Disseminate Weather Information: A Cross-Sector Comparison."

Environment Canada awarded \$36,390 to Prof. Grant Edwards, Engineering, for a "Joint Project in Air-Quality Research" and \$12,000 to Prof. George Thurtell, Land Resource Science, for "Analysis and Publication of BOREAS and Borden Turbulence Data Sets and the Development of the Theory of Diffusion Processes Within and Above Vegetation Canopies Surfaces."

Prof. Dave Swayne, Computing and Information Science, received \$26,000 from Environment Canada for the project "Software Development for Sustainable Agriculture and Impact on Water Quality" and \$15,325 for "World Wide Web Support Services." He was also awarded \$20,000 by C-Soft for "Robust Distributed Systems."

Fisheries and Oceans has provided Prof. Iain Campbell, Physics, with \$5,000 for "Micro-PIXE Analyses of Otoliths Using SPM."

Prof. Richard Moccia, Animal and Poultry Science, received \$7,500 from Martin Mills Inc. for "Feeding Trials for Aquaculture."

The Ministry of Natural Resources (MNR) has provided \$314,990 to Prof. Roselynn Stevenson, Microbiology, to continue the project "Fish Disease."

MNR also awarded Prof. Ron Brooks, Zoology, \$16,500 for a "Literature Review of Small Mammal Monitoring Programs and Development of Standard Sampling Protocol," \$15,000 for "Monitoring Small Mammal Population in Algonquin Park" and \$30,000 "To Assess Techniques to Monitor Abundance and Diversity of Amphibians Breeding in Different Habitats with Particular Emphasis on Vernal Pools."

Prof. Ken Kasha, Crop Science, received \$85,000 US from Monsanto Company for his work on "Wheat Isolated Microspore Culture."

The National Dairy Council of Canada awarded \$10,000 to Prof. Karl Meilke, Agricultural Economics and Business for the project "Trade Liberalization in the International Dairy Market."

Prof. Gopi Paliyath, Food Science, has been awarded \$7,500 a year for three years by the Ontario Apple Marketing Commission for "Antioxidant Formulations to Replace the Use of DPA for Controlling Superficial Scald."

The Ontario Corn Producers' Association has provided Prof. Ralph Brown, Engineering, with \$243,000 to study "Improved Marketability and Competitiveness of Ontario Corn for Quality-Based Markets."

Prof. Bill Woodward, Human Biology and Nutritional Sciences, received \$10,000 from the Ontario Soybean Growers' Marketing Board to study the "Nutraceutical Potential of Soybean Oil in Promoting Development of Immune Defences of the Young."

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portable camping toilet, two pieces of Plexiglas, 4' x 8' x 1/4", 821-1879.

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fessor or graduate student, \$800 inclusive, 821-6432.

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Small apartment for mature graduate student, non-smoker, will take good care of the space, parking needed, leave message for Karen at 821-6802.

One medium shredding disk for Cuisinart food processor, model is 25 years old, disks no longer available through manufacturer, Marjorie, 824-1628.

A good used electric dryer, Barb, Ext. 2043 or 821-7069.

Au pair position for 20-year-old German woman from former GDR, responsible, experienced with children and housework, Fred, Ext. 3469, 821-6892 or feidlin@css.uoguelph.ca.

Large Jump King trampoline, Ext. 8706.

Dog lovers with vehicle and fenced yard (but no dog) willing to take care of other people's dogs for short periods, Cobi, Ext. 6373, 836-8086 or e-mail cdeimmers@uoguelph.ca.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre, fax to 824-7962 or e-mail lgraham@ccs.admin.uoguelph.ca. For more information, call Ext. 6581.

Arboretum Hosts Gala Dinner

THE ARBORETUM goes Italian Oct. 24 for its annual gala fund-raising dinner and auction. "Fall Festa Fantastica" will feature an Italian dinner, live and silent auctions and entertainment — all to raise funds for a new Italian garden at the Arboretum and to support education programs and collection maintenance.

Arboretum volunteers and staff have lined up an impressive array of donations to be auctioned during the evening. These include a trip to Ireland, a hot-air balloon ride for two, packages for dinner and show at the River Run Centre and a song to be custom-written by James Gordon and played on the CBC. There will also be numerous door prizes.

The evening begins at 6 p.m. with the silent auction; dinner follows at 7:30 p.m. The live auction gets under way at 9 p.m.

Tickets are \$65 and are available at the Arboretum Centre or by calling Ext. 2213. Only 150 tickets will be sold.



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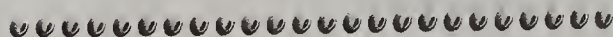
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ARBORETUM

The Arboretum Auxiliary will stage "Fall Festa Fantastica," a gala fund-raising dinner and auction, Oct. 24 at 6 p.m. at the Arboretum Centre. Tickets are \$65. Proceeds go to support the Arboretum's environmental education programs and collection maintenance and to help launch an Italian garden. To reserve tickets, call Ext. 2113.

ART CENTRE

The Macdonald Stewart Art Centre's "Talking Art Series" presents Arnaud Maggs Oct. 9, Colette Whiten Oct. 16 and Andy Fabo Oct. 23. All talks begin at 4 p.m.

COLLOQUIUM

The Scottish studies program in the Department of History presents its annual fall colloquium Oct. 8 from 9:30 a.m. to 4:15 p.m. in the Graduate Lounge on UC Level 5. This year's theme is "Scotch on the Rocks: Scottish Founders of Modern Geology." Admission is \$20 general, \$17 for seniors and members of the Scottish Studies Foundation, and free for students. For more details, call Ext. 6528.

COMMUNITY EVENTS

The Rotary Club of Guelph presents a monthly series of travel and adventure films running Wednesdays at 8 p.m. at E.L. Fox Auditorium. First up is a look at the Canadian Maritimes Oct. 15. Single tickets are \$5 at the door; cost of the six-part series is \$24. For series tickets, call Vern Ferrier at 821-7195.

Puslinch Firefighters are staging an Oktoberfest dance Oct. 18 at the Aberfoyle Community Centre. Tickets are \$8 in advance, \$10 at the door. For more information, call Ext. 6696.

The Arkell Schoolhouse presents its second annual Harvest Harpfest Oct. 11 at 8 p.m., featuring four Celtic harpists. Tickets are \$15. Call 763-7528 to reserve.

United Way Community Services of Guelph and Wellington is sponsoring a community forum on permanent charity gaming halls and video lottery terminals Oct. 22 from 7 to 9:30 p.m. at the Holiday Inn. For more information, call Wendy Adema at 821-0571, Ext. 29.

The Church of St. James the Apostle at 86 Glasgow St. is hosting a weekly series of free lunch-time concerts called "Music and Meditation." Concerts run Tuesdays from 12:10 to 12:40 p.m., starting Oct. 14. On Oct. 19, St. James will sponsor St. Francis Day celebrations beginning at 11 a.m. with the traditional "Blessing of the Animals" service, followed by a medieval street fair from 12:30 to 4:30 p.m. and a 7 p.m. concert by Venturi Winds.

The next meeting of the Guelph Y Service Club is Oct. 14 at 7 p.m. at the Guelph Y. For more information, call Martin Dand at 856-1250 (e-mail: marty@sentex.net) or Marie Leone at the Y, 824-5150.

The 12th annual Guelph studio tour runs Oct. 17 to 19, featuring the work of 25 local artists, artisans and photographers. For more information, call or pick up a brochure at the Guelph Arts Council office, 836-3280. Rockwood and area artists will hold their fall studio tour Oct. 18 and 19. For information, call 856-9662.

CONCERTS

The School of Fine Art and Music's noon-hour concert series continues Oct. 9 with pianist Minna Re Shin and Oct. 16 with Lukshmi Ranganathan on veena and Vasan Rajalingam on mridangam. On Oct. 23, guest performers are Jaap Schroeder on baroque violin, Prof. Mary Cyr on viola da gamba and Sandra Mangsen on harpsichord. Concerts begin at 12:10 p.m. in MacKinnon 107. Admission is free.

The School of Fine Art and Music marks the 30th anniversary of U of G's Thursday noon-hour concert series with a performance by renowned Canadian baritone Kevin McMillan Oct. 18 at 8 p.m. in War Memorial Hall. Tickets are \$10 and \$6.

CONFERENCES

The Canadian Society for Italian Studies will hold its fall conference Oct. 19 on campus. Hosted by U of G's Italian studies program and coordinated by Prof. Adnan Gökken, Languages and Literatures, the conference runs from 10 a.m. to 5 p.m. in UC 103. Registration is free and everyone is welcome.

The 29th Drainage Engineers' Conference runs Oct. 31 from 9 a.m. to 5 p.m. at the Arboretum. For details, call the Office of Open Learning at 767-5000.

LECTURES

"From Deference to Defiance: Vietnam Veterans Against the War" is the topic of University of Waterloo historian Andrew Hunt Oct. 14 at 3:30 p.m. in Crop Science 101. The talk is sponsored by the Department of History.

Third Age Learning — Guelph continues its fall lecture series for retired people Oct. 15 with Ernest Regehr discussing "The New Face of War and the Challenge of Peace Building" at 10 a.m. and Prof. Chandler Kirwin, Fine Art, examining "Powers Matchless" at 1:30 p.m. On Oct. 22, the topics are "Information Technology and Human Factors" with Prof. Victor Ujimoto, Sociology and Anthropology, and "Fields of Corn Make a Pleasant Prospect" with Kirwin. Lectures are at the Arboretum Centre.

The University Centre and the Central Student Association present "An Evening of Canadian Politics" Oct. 23 at 7 p.m. Speakers are Anthony Hyde, author of *Breaking Faith in Canadian Politics*, and Lawrence Martin, author of *Lucien Bouchard and the Politics of Delusion*. For location, call Ext. 2894.

OVC's 1997 Schofield Memorial Lecture Oct. 23 features Harley Moon of Iowa State University, a specialist in the field of infectious diseases, discussing "Comparative Medicine II: Tracing Scientific Roots to Schofield." The talk begins at 3:30 p.m. in War Memorial Hall.

MEETING

The Canadian Wildflower Society meets Oct. 15 at 7:30 p.m. at the Arboretum Centre. Guest speaker Doug Van Hemmen will discuss "Carolinian Forests in Canada — the Last of an Endangered Habitat." Everyone is welcome.

MISCELLANEOUS

Members of the Macdonald Institute class of 1954 will dedicate a piece of quilt art Oct. 9 to mark the 40th anniversary of their graduation. Designed by class member Marilyn

Stewart Stothers, the work will be hung at 10:30 a.m. in FACS 105.

The Central Animal Facility will hold a United Way bazaar Oct. 17 from 11:30 a.m. to 2 p.m. The event will feature a barbecue lunch, bake sale, garage sale and raffles.

NOTICES

The Stress-Management and High-Performance Clinic will offer a noon-hour skills training class Tuesdays and Thursdays beginning Oct. 14 in UC 442. The class offers instruction in a variety of techniques for muscular relaxation, anxiety reduction and worry control. The fee for 12 sessions is \$40 for U of G students, \$60 for members of the U of G Staff Association and \$120 for others. Pick up a registration form at the Connection Desk on UC Level 3 or leave a message at Ext. 2662.

Do you have a work opportunity in your department that could be made available to an approved work/study student? If so, call Ext. 2546 for more details.

PANEL DISCUSSION

The Our World series explores "Death of the Innocent: The Global Land-Mine Crisis" Oct. 14 at 12:30 p.m. in UC 103. Panelists from McMaster University are Afghanistan doctor Seddiq Weera, David Pratte of the Canadian Land-Mine Research Network and Land-Mine Working Group, and Sammy Khan and Anees Merchant, also members of the working group.

SEMINARS

The Department of Chemistry and Biochemistry presents Ronald Childs of McMaster University explaining "Development and Uses of Polyelectrolyte-Filled Microporous Membranes" Oct. 14 at 4 p.m. in MacNaughton 222. To meet with Childs, call Ext. 3803.

Prof. Michael Hoy, Economics, is guest speaker at a seminar sponsored by the Department of Physics Oct. 14 at 4 p.m. in MacNaughton 113. His topic is "Theoretical Developments in the Measurement of Income Inequality with Applications to Income Tax Reform."

Biomedical sciences graduate student Janet Douglas examines "A Horse's

Foot: Inside and Out" Oct. 17 at 12:30 p.m. in OVC 1642.

The Plant Biology Council presents Profs. Bryan McKersie and Steve Bowley, Crop Science, discussing "Transgenic Alfalfa Enhancement of Abiotic Stress Tolerance" Oct. 15 and Ray Wheeler of NASA explaining "CELLS (Plants in Space)" Oct. 20. The seminars begin at 3:45 p.m. in Axelrod 259.

The biochemistry seminar series continues Oct. 22 with Jean Garipey of the Ontario Cancer Institute and the University of Toronto. He explores "Peptide and Protein Templates in Drug Discovery" at 12:10 p.m. in MacNaughton 222.

THEATRE

Scotland's Rowan Tree Company, a team of artists who offer theatre, storytelling, music and lectures, will give a free lecture on "Song Traditions of the Scottish Borders" Oct. 14 at 1 p.m. in MacKinnon 233. At 7:30 p.m., the company performs in Lower Massey Hall. Evening admission is \$15 general, \$10 for Scottish Studies Foundation members, students and seniors.

WORKSHOPS

Faculty interested in learning how the World Wide Web can be used effectively in their teaching are invited to visit "Club Web" Oct. 22 for an introductory session. It runs from 10:30 a.m. to 12:30 p.m. in the group viewing room in the library. To register, send e-mail to mnairn@uoguelph.ca. For more information, call Mary Nairn of Teaching Support Services, Ext. 3571, or Helen Salmon of the U of G Library, Ext. 3150.

WORSHIP

Roman Catholic Mass is celebrated Sundays at 10:10 a.m. in Room 100 of the Thornbrough Building.

A spirituality circle for women meets Fridays at 11:30 a.m. in UC 533. For more information, call Rev. Lucy Reid, Ext. 2390.

The Ecumenical Campus Ministry and Harcourt United Church offer non-denominational Sunday services weekly at 7 p.m. Harcourt Church, 87 Dean Ave.

Thursdays at Noon Series Celebrates 30 Years of Music

A special concert Oct. 18 in War Memorial Hall will mark the anniversary of one of U of G's most popular traditions

Hundreds of acclaimed musicians have performed at U of G's Thursdays at Noon series, and on Oct. 18, a special concert will be held at War Memorial Hall to commemorate 30 years of the popular series.

The 8 p.m. concert will feature well-known Canadian baritone Kevin McMillan and pianist Andrea Battista and will include works by Purcell, Greer, Vaughan, Williams, Britten and Kern.

The Thursdays at Noon series, run by the School of Music and Fine Art, was launched by Ralph and Edith

Kidd. Ralph Kidd was the first chair of the department of music established in 1965 as part of the Wellington College of Arts and Sciences. He and his wife, who served as the department's concert manager, played an instrumental role in providing music on campus. They played music for convocations, alumni reunions, banquets and retirement parties. They launched the Thursdays at Noon series in 1968 and worked tirelessly on it until their retirement in 1975. Edith Kidd died this summer at the age of 85.

The first Thursday noon-hour concert featured Dutch baritone Peter van Ginkel, who at that time was attached to Wilfrid Laurier University. Over the past 30 years, guest artists have included cellist Shauna Rolston, flutist Robert Aitken and the Canadian Brass.

The musicians performing at the Oct. 18 commemorative concert are internationally renowned. McMillan has become one of the most respected lyric baritones of his generation. His engagements have included appearances with every major orches-



Baritone Kevin McMillan

tra in North America. His stature in Europe continues to grow, with recent appearances in the major concert halls of Berlin, Paris, Hamburg and Prague.

Battista is a member of the New Chatham Symphony Orchestra, the Canadian Music Festival Adjudicators' Association and the Board of Examiners for the Western Conservatory of Music in London.

Tickets for the concert are \$10 general, \$6 for students and seniors, and are available from the School of Fine Art and Music, Ext. 3127.



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IN THIS ISSUE

2 SENATE GIVES the nod to eliminating the pre-veterinary year in the DVM program by the end of the century.

3 CAMPUS FUND volunteers say that giving to the University can be a good way to invest charitable dollars.

4 AT GUELPH profiles the members of the 1997/98 Board of Governors.

6 ZOOLOGY professor John Roff offers some insights on the recent controversies surrounding fisheries research.



ADDING UP TO SUCCESS

Dianqin Wang, who graduated Oct. 6 with a PhD in mathematics and statistics, celebrates his achievement with seven-month-old son Michael following the ceremony in War Memorial Hall. Some 555 students graduated from Guelph this month. PHOTO BY MARTIN SCHWALBE

Psychology Centre Will Help Meet Community Needs

Service aims to fill growing need for accessible, affordable psychological assessments in Guelph

A NEW PSYCHOLOGY CENTRE ON campus will help fill a growing gap in community assessment services available for children with learning, attention, behavioral and emotional problems.

Launched this summer by the Department of Psychology, the Centre for Psychological Services is directed by registered psychologist Brenda Kenyon, a master's graduate of U of G and PhD graduate of Concordia University who works locally as a school psychologist and private practitioner and is also a psychology instructor at Guelph and Waterloo. She has extensive experience in assessing children and adults with learning and related disorders and diagnosing and treating anxiety, depression and other psychological disorders.

Kenyon says her work in the community was painting an increasingly gloomy picture — fewer and fewer services available for parents of children with special needs, long waiting lists to have a child seen for an assessment, parents often required to go out of the city for help, if they could afford it. The need was there for a high-quality assessment and consultation service that would be accessible and affordable, she says, and what better place to establish it than on campus, where there is access to a wide range of expertise among Department of Psychology faculty, as well as well-trained graduate students eager for a chance to put their clinical skills into practice?

An on-site facility to foster the professional development of senior graduate students has long been on the Department of Psychology's wish list, but was never financially feasible, says Kenyon. The centre is located in Blackwood Hall in space that was formerly occupied by the Department of Psychology's research laboratory. The University provided academic restructuring funds for the renovations.

In addition to Kenyon, the centre is staffed by clinical associate Eileen Gross, who has a diverse background in psychology and special education and has been teaching in the Department of Family Studies since 1981. She has also been providing assessment services in

Wellington County for more than 15 years. She conducts psycho-educational assessments of children, with an emphasis on developing effective problem-solving strategies for children, families and schools.

Kenyon and Gross will do assessments, provide school and community consultations and offer clinical opportunities for several graduate students each semester.

Four faculty who are registered with the College of Psychologists of Ontario are also available to offer services to the public — Prof. Mary Ann Evans, a specialist in learning disabilities and other educational concerns; Prof. Mary Konstantareas, who works in the fields of autism and pervasive developmental disorders; Prof. Barbara Morrongiello, a pediatric and health psychologist; and Prof. Michael Sobol, who offers counselling in adoption and family psychology. Several other faculty will also be available for consultation, such as Prof. Michael Peters, a specialist in neuropsychology and mental retardation.

"This complement of professional expertise provides a broad practical and research base for the advanced training of graduate students," says Prof. Michael Matthews, chair of the Department of Psychology. "The department has been fortunate in attracting Brenda Kenyon and Eileen Gross, two highly respected and accomplished practitioners who will provide the majority of core services offered in the centre. Their expertise, supplemented by the range of specialties offered by the faculty affiliated with the centre, will provide a breadth of assessment functions rarely found in a community of our size."

Clients can either be referred to the centre or can refer themselves. The assessment process takes about two months and begins with an interview with the child, the parents and sometimes other members of the family. This is followed by several testing sessions, with the clinician examining cognitive and problem-solving ability, attentional processes and social-emotional development. The centre then provides the parents with a written

Continued on page 2

Guelph Rules the Waves

Editors of aquatic journal plan to keep making a big splash in academic circles

U of G is riding a riptide of achievement. First it was the opening of the new state-of-the-art Hagen Aqualab. Now the University has landed one of the world's leading aquatic academic journals, the *Canadian Journal of Fisheries and Aquatic Sciences* (CJFAS).

For landlocked U of G, the fisheries and aquatic journal is a coup. But this is not just any aquatic journal. According to the Institute for Scientific Information, CJFAS ranks among the top three cited journals in the fisheries category worldwide. (The Philadelphia-based institute is the world measure of academic journals and their influence and impact in their field.)

At Guelph's official launch of the journal Oct. 17 in its new home in the Textiles and Design Building, more than 50 guests were served bottled water and salmon canapés in a salute to the aquatic theme of the festivities. Remarks by president Mordechai Rozanski and vice-president (research) Larry Milligan emphasized the stature of CJFAS, as well as U of G's strength in the field, a key factor in Guelph landing the journal.

Profs. John Roff and Moira Ferguson, Zoology, have been appointed editors of the monthly journal, with a five-year operating budget of close to \$700,000.

"This is one of the most prestigious aquatic sciences journals in the world," says Roff. "The National Research Council's (NRC) decision to award the journal to Guelph is a recognition of our very considerable strengths in aquatic sciences and fisheries."

CBS dean Robert Sheath notes that CJFAS adds to a growing list of internationally acclaimed journals that are edited in the college. "This demonstrates the stature of this college not just in Canada, but worldwide as well," he says.

For the NRC, the move is a sign of confidence not only in Roff and Ferguson, but also in the commitment U of G has in the field of fisheries and aquatic sciences, a subject rarely off the front page of newspapers recently.

"Running an editorial office, particularly one as prestigious and demanding as that of CJFAS, requires tremendous



Profs. Moira Ferguson and John Roff are the new editors of one of the world's leading aquatic academic journals.

PHOTO BY MARTIN SCHWALBE

commitment from the editors, their host universities and from the publisher," says Kathryn Mikoski, acting director of the NRC Research Press, who oversees the journal's publication. "The University of Guelph, through its support to professors Roff and Ferguson, will be making a commitment to the quality of intellectual content."

She notes that the new editors "are highly respected scholars dedicated to making the journal number one in the world by vigorously maintaining the quality of accepted

Continued on page 7

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SENATE REPORT

OVC will eliminate pre-veterinary year

By the end of the century, students entering the Ontario Veterinary College's DVM program will no longer be required to take a pre-veterinary year. Senate agreed Oct. 14 to discontinue the year as of 1999.

Traditionally, students accepted into the DVM program have been selected to a two-semester pre-veterinary year, from which they could proceed to the first semester of the DVM program. As of spring 1999, however, students will be admitted directly to the DVM program after a minimum of two years of university study.

This move was recommended by the DVM program committee, which assessed the role of the pre-veterinary year in the context of the entire DVM program. A number of problems have been associated with the pre-vet year. Many students, for example, consider it a "false start" because they don't actually begin DVM program courses for many months after admission.

The committee also noted that the pre-vet year often

creates problems for students completing an undergraduate degree and can add to the time of others who may already hold an undergraduate or graduate degree. Prof. Jill McCutcheon, assistant dean of OVC, told Senate that most students have already taken the courses they need before they enter the pre-veterinary year. As a result, about 90 per cent of pre-vet students do not take a full-time course load.

After agreeing to discontinue the pre-veterinary year, Senate approved revised requirements for admission to the DVM program for the fall 2000 entering class. One major change involves the introduction of the U.S.-based Medical College Admissions Test as a selection criteria. All applicants will be required to take the test, which is offered twice a year in April and August. M.Sc. student senator Melissa Parker lauded this move, saying it will put all applicants to the DVM program on a level playing field.

B.Sc. SPECIALIZED HONORS CUT

In other Board of Undergraduate Studies (BUGS) business, Senate approved the deletion of all 27 specialized honors in the B.Sc. program — to be replaced by majors if they are not already available. This brings Guelph more in line with other Canadian universities, said CBS dean Robert Sheath.

B.Sc. students currently registered in a specialized honors program will be allowed to graduate with that specialization or transfer to the major in their field.

Elimination of the specialized honors required the addition of new majors to the B.Sc. program and revisions to existing ones. Senate gave the nod to 15 new and revised B.Sc. majors that require 20

credits. It also approved majors in the B.Sc. program that require more than 20 credits, on the understanding that the program committees will review these schedules of studies over the next three years in an effort to bring them down to 20.

CONTINUATION OF STUDY REVISED

Another BUGS recommendation that U of G introduce a new continuation-of-study model based on cumulative averages also received Senate's nod. In the past, a student's ability to continue in a program was based on counting the number of C's and F's obtained in a given number of course attempts. Now, students must maintain an overall average of 60 per cent to continue in their studies.

DRAMA, ENGLISH MERGE

In Committee on University Planning business, Senate approved the creation of the School of Literatures and Performance Studies in English to replace the departments of English and Drama. This completes a series of changes in the College of Arts that have resulted in the restructuring of seven departments into two departments and three schools.

Senate also approved the establishment of a Centre for Psychological Services in the Department of Psychology (see story on page 1), with a review slated for fall 2002.

Finally, Senate agreed to a name change for the Department of Political Studies to the Department of Political Science, a move aimed at conforming to a standard around the world.

Centre Expected to Give U of G an Edge over Other Universities

Continued from page 1

report, an explanation of the assessment results and a set of recommendations, some for home and some for school. The clinician and parents meet with the child's teacher and school support staff to discuss the recommendations.

"We know schools are under terrible stress, so we try to be as realistic as we can about what can be done in the classroom," Kenyon says.

The centre, which also offers assessment services for adults, is proving to be a perfect fit for everyone involved, she says. For clients, "it fills that need in the middle" — people who can't afford to pay a lot but also can't afford to wait a long time.

For the psychology students, the centre offers clinical experience they couldn't easily obtain elsewhere before they graduate, she says. "Here, working as part of a clinical team, the students have a chance to be involved in a full range of psychological services — conducting individual assessments, providing feedback to families and offering follow-up consultations in the community."

Kenyon expects this to give U of G an edge over other universities in drawing high-quality graduate students. "The facility will eventually offer students paid supervised internships at a time when, across the province, such opportunities are

being severely cut back."

She says the centre also benefits the University because "it makes people in the community more aware of the work we do and keeps us in close contact instead of at a distance."

Another plus of the centre is the research opportunities it will provide, she says. "It could improve integration of practice with research, offer a broader range of logistically feasible research themes and enable us to establish an important clinical database."

A research protocol completed for all clients of the centre will serve as a database for graduate and faculty research, notes Matthews. "We hope that others from across campus who are interested in applied developmental psychology and support services for children and their families will also avail themselves of this unique research opportunity."

For Kenyon, the centre provides an extra bonus. "My position here gives me an opportunity to combine my clinical expertise in a unique way. I'm able to provide quality psychological services to the community while working closely with graduate students in the Department of Psychology. I love working with the students. They're intelligent, inquisitive, up to date and full of energy and ideas."

BY BARBARA CHANCE

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UNIVERSITY
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DEADLINE NEARS FOR JOHN BELL AWARD

Nominations for the John Bell Award, which recognizes outstanding contributions to education at U of G, are due Dec. 31.

The award is open to any current faculty member who has made outstanding contributions in course and curriculum design and who has shown educational leadership, and/or for whom there exists substantial evidence of contributions to the development of materials, procedures and ideas about university education.

The award is named for the late professor John Bell, a former chair of the Department of Languages and Literatures, who taught at U of G from 1972 to 1987.

For more information about the nomination process, call the Senate Office at Ext. 6758.

OPEN LEARNING COURSE TOPS WEB COMPETITION

The U of G Web-based distance education course "Forest Ecology 2" won first prize in a Web course design competition at the North American Web Conference this month at the University of New Brunswick.

The interactive course was designed by a team consisting of Bob Carley of the Office of Open Learning, Aldo Caputo of Teaching Support Services, Prof. Andrew Gordon, Environmental Biology, and graduate student Rob McCart.

To view all 18 of the Web course entries, go to <http://www.assini-boinec.mb.ca/naweb97/course.htm>.

CSBs AVAILABLE THROUGH PAYROLL DEDUCTION

U of G has again made arrangements for employees to buy compound-interest Canada Savings Bonds by payroll deduction. This plan is available to permanent full-time employees as well as contractually limited staff whose termination dates are beyond October 1998.

"University employees take advantage of this opportunity in a big way," says Lillian Wilson, senior compensation co-ordinator in Human Resources. "Total sales for the 1996/97 campaign were over \$1 million, with the average purchase approximately \$1,700."

Deductions will be made in 24 equal instalments beginning with the Nov. 13 pay. The interest rate for the new series of bonds is three per cent for the first year, increasing to 6.5 per cent in the seventh year. The annual compound rate of return over seven years based on the minimum guaranteed rates is 5.14 per cent.

Application forms are available from department secretaries and administrative assistants and must be returned to Human Resources by Oct. 28. For more information, call Ext. 3374.

Employees who bought 1996/97 CSBs can now pick them up in Human Resources. Photo identification is required.

Charity Begins at Home

'When we support our own institution, it says we're committed to ensuring that Guelph is at the forefront of education and research expertise'



Shown here are four of the six volunteers who are extending a helping hand to this year's Campus Fund. From left are Chuck Cunningham, Sylvia Willms, Prof. Rick Yada and Prof. Bruce Holub. Missing from photo are Profs. Jim Shute and John Walsh.

PHOTO BY MARTIN SCHWALBE

WITH ALL THE OTHER WORTHY charities that beg our attention, it's sometimes easy to ignore the annual plea from the U of G Campus Fund. But the six people on this year's volunteer committee say giving to the University we choose to work for can be a good way to invest our charitable dollars.

Committee member Sylvia Willms, a director in Hospitality Services, says she can't help thinking of her own two children when filling out her Campus Fund pledge card. "I feel that when we invest in the University, we're investing in the future of our children."

Willms' gift this year will ensure that some of our children — and all of U of G's current students — have better access to computer-based learning. The Campus Fund priority is to match the \$120,000 committed to the development of multimedia computing laboratories in 1996. It's a project that's essential, not just for the future of our children, but for all of society, says Prof. Bruce Holub, Human Biology and Nutritional Sciences. "Support for cutting-edge computing labs via the Campus Fund is critical so that our students can fully serve society in the 21st century."

Prof. Jim Shute, director of the Centre for International Programs, says he supports the Campus Fund because "I have seen its direct contribution to so many features of this campus that give it its special character, from the Arboretum to scholarships to academic equipment and classroom upgrading."

Prof. Rick Yada, acting chair of the Department of Food Science, thinks of faculty and staff giving as a way of maintaining quality in the face of reduced government support.

"One of the biggest concerns faculty have is the potential erosion of quality in academic programs," he says, "so when we support our own institution, it says we're committed to ensuring that Guelph is at the forefront of education and research expertise."

Potential students are attracted by the quality of Guelph's academic programs, says Chuck Cunningham, director of enrollment management and registrar services. But he volunteered for the Campus Fund committee because his experience in liaison has convinced him that students "are also looking for a university that will offer them a supportive environment in which to learn. The Campus

Fund helps U of G maintain and enhance the quality of our programs, while reinforcing our commitment to our community and to supporting students."

Last year's \$120,000 Campus Fund commitment was just a small part of the \$6.4 million raised through University Affairs and Development fund-raising efforts, but Prof. John Walsh, HAEA, another member of this year's volunteer committee, believes it was a pivotal part.

"Faculty and staff, students and alumni are all part of the Guelph learning community, and we have an important role to play in the University's fund-raising effort," he says. "Our participation demonstrates that we are prepared to help ourselves. If we can't say that, then it's difficult to convince the rest of the world that the University of Guelph is worth supporting."

These volunteers have helped to distribute Campus Fund pledge cards to faculty and staff, along with a brochure explaining the priority project to fund 70 state-of-the-art workstations in the library. For additional information, visit the U of G Web site at www.uoguelph.ca.

BY MARY DICKIESON

PEOPLE

FOOD SCIENTIST IS FELLOW

Prof. Rick Yada, acting chair of the Department of Food Science, was named a fellow of the Canadian Institute for Food Science and Technology last month. The fellowship recognizes outstanding and distinguished accomplishment as measured by extraordinary performance in the field of food science and technology. He joins the ranks of four other fellows associated with the Department of Food Science — Profs. John DeMan, Vladimir Rasper, David Stanley and Marvin Tung.

ARTIST HONORED FOR EXCELLENCE IN VISUAL ARTS

Prof. Suzy Lake, Fine Art and Music, is the 1997 recipient of the visual arts award from the Arts Foundation of Greater Toronto honoring excellence in the arts. Selected for the award by a jury of artists, critics and curators, she will receive a bronze medallion at a televised awards ceremony Nov. 6 in Toronto. The award includes a cash amount to be used to commission a work from an emerging artist.

BEST PAPER NAMED

Prof. Brian Allen, Mathematics and Statistics, recently received an award for best paper related to vegetable production in the *Canadian Journal of Plant Science* for 1996. Allen, who is director of the Ashton Lab on campus, was honored for his work on "Yield and Growth Responses of Asparagus to Between-Row Spacing and Planting Depth."

WISEMAN VISITING PROF

University professor emeritus Henry Wiseman of the Department of Political Science has been appointed visiting professor at the University of Osnabrueck in Germany, where he will give a series of lectures on peacekeeping in November and December. He has also been invited to lecture at Germany's University of Konstanz.

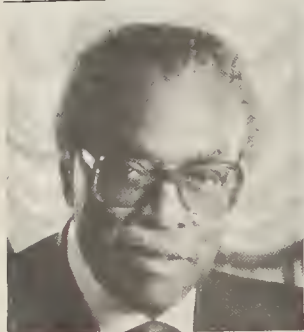
TWO BOOKS PUBLISHED

The research efforts of Prof. Jay Newman, Philosophy, have resulted in the publication of two books in the past year. The first, *Religion and Technology*, is a study in the philosophy of culture and was published by Praeger Publishers of the Greenwood Publishing Group. In it, Newman looks at religious criticism of technology and argues that the religious antitechnologist might be misunderstanding the essence of technology, its relation to progress and its significance as a religious endeavor.

Newman's second book, *Inauthentic Culture and Its Philosophical Critics*, is newly published by McGill-Queen's University Press. It puts the contemporary problem of inauthentic culture into philosophical and historical context and goes on to show how traditional philosophical criticism can help us understand cultural phenomena such as TV and public relations, as well as contemporary forms of craftsmanship, democracy and the academy.

Board of Governors

On these pages, At Guelph profiles the 24 members of the 1997/98 Board of Governors



Lincoln Alexander
Retired lieutenant-governor of Ontario
Appointment: chancellor
Committee responsibility: member of external relations committee, honorary chair of Heritage Fund board of trustees



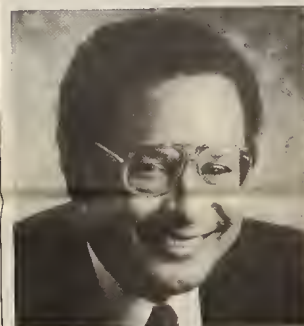
Mordechai Rozanski
President, University of Guelph
Appointment: president
Committee responsibility: ex-officio member of all board committees and Board of Trustees committees (except the audit committee)



Doug Dodds, chair
Chair and CEO of Schneider Corp., Kitchener
Appointment: board
Committee responsibility: member of committee on negotiations, ex-officio member of all other committees, member of Board of Trustees



Tony Arrell
Chair and chief executive officer, Burgundy Asset Management Ltd., Toronto
U of G graduate: BSA 1967
Appointment: board
Committee responsibility: chair of the external relations committee, member of finance, senior compensation and executive committees



Ken Bedasse
Vice-president of operations, McNeil Consumer Products, Guelph
Appointment: lieutenant-governor order-in-council
Committee responsibility: member of audit committee and pensions and benefits committee



Gerit Bos
Senior analyst/information, Computing and Communications Services
U of G graduate: B.Sc. (Eng.) 1987
Appointment: staff/alumni
Committee responsibility: member of finance committee



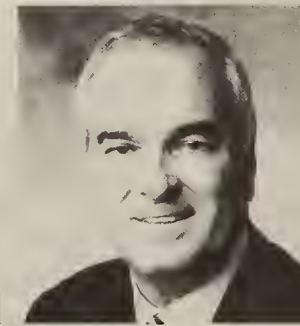
Lynda Bowles
Partner, Deloitte & Touche, Toronto
U of G graduate: B.A.Sc. 1972, M.Sc. 1974
Appointment: lieutenant-governor order-in-council
Committee responsibility: member of audit committee and pensions and benefits committee



Diane Boyd
Reference associate, U of G Library
U of G graduate: BA 1968
Appointment: staff
Committee responsibility: member of physical resources and property committee



Greg Clark
President and CEO, John Deere, Grimsby
Appointment: board
Committee responsibility: chair of audit committee, member of executive and pensions and benefits committees



Kelth Conklin
Executive vice-president and president, Nestlé Foods Group, Nestlé Canada Inc., North York
Appointment: board
Committee responsibility: member of external relations committee



Simon Cooper
President and COO, Delta Hotels & Resorts, Toronto
Appointment: board
Committee responsibility: chair of committee on negotiations/senior compensation and membership committee, member of executive and physical resources and property committees



Colin Dawes
Undergraduate student, B.Sc. program
Appointment: undergraduate student
Committee responsibility: member of finance committee

1997/98



Ann Gibbins
Chair, Department of Animal and Poultry Science
U of G graduate: M.Sc. 1971, PhD 1980
Appointment: faculty
Committee responsibility: member of physical resources and property committee



Warren Jestin
Senior vice-president and chief economist, Bank of Nova Scotia, Toronto
U of G graduate: BA, MA 1971
Appointment: lieutenant-governor order-in-council
Committee responsibility: member of finance committee



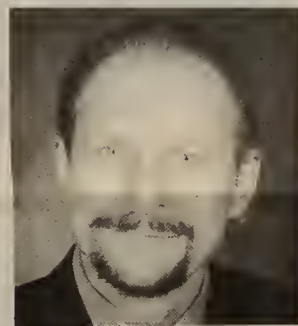
John Lahey
Senior vice-president, Ontario Southwest Region, CIBC, Hamilton
Appointment: board
Committee responsibility: chair of pensions and benefits committee, member of executive committee



David Lees
President and CEO, Canada Bread Company Limited, Etobicoke
Appointment: board
Committee responsibility: chair of finance committee, ex-officio member of executive committee, member of negotiations committee



Tanya Lonsdale, vice-chair
Partner, Braun Consulting Engineers Ltd., Guelph
U of G graduate: B.Sc.(Eng.) 1983, M.Sc. 1985
Appointment: alumni/board
Committee responsibility: chair of physical resources and property committee, member of audit and membership committees, ex-officio member of negotiations/senior compensation committee, member of Board of Trustees' real estate development committee



Michael Matthews
Chair, Department of Psychology, University of Guelph
Appointment: faculty
Committee responsibility: member of finance committee



John Oliver
Former president, DowElanco Canada Inc., Calgary
U of G graduate: BSA 1961
Appointment: alumni/board
Committee responsibility: member of external relations committee



Larry Pearson
Retired president and chief operating officer, Linamar Corporation, Guelph
U of G graduate: B.Sc. 1972
Appointment: lieutenant-governor order-in-council
Committee responsibility: member of audit committee



Michael Walsh
Vice-president and director, First Marathon Securities Limited, Toronto
U of G graduate: BA 1969, MA 1970, PhD 1992
Appointment: board
Committee responsibility: member of finance committee



Christoph Wand
Graduate student, Department of Animal and Poultry Science
U of G graduate: B.Sc. 1996
Appointment: graduate student
Committee responsibility: member of external relations committee



Nathan White
Undergraduate student, B.Comm. program
Appointment: undergraduate student
Committee responsibility: member of physical resources and property committee



Janet Wood
Professor, Department of Microbiology
Appointment: faculty
Committee responsibility: member of external relations committee

FISHING FOR ANSWERS

*The public wanted to know: Why did this happen? Who was responsible?
Why didn't someone tell us? What can we do? When will the fish come back?*

AT A RECEPTION OCT. 17, *U of G* officially took over editorship responsibilities of the Canadian Journal of Fisheries and Aquatic Sciences, one of the oldest and most frequently cited fisheries journals in the world. Zoology professors John Roff and Moira Ferguson actually assumed their editing duties in time to put together the June issue. That issue, and the May issue that preceded it, generated coast-to-coast media attention over allegations about federal influence in fisheries research. Here, Roff discusses the sometimes misunderstood relationship between science and government and the public both are expected to serve.

I think the controversy Moira Ferguson and I encountered in our first months as editors was unusual — and certainly unusual for the past history of the journal — but may be more common in the future. This is because although scientific journals are not normally the focus of public controversy, the applications and implications of science increasingly touch the everyday lives of the public. This is unavoidable and expected in an increasingly technological society.

Perhaps I should begin by explaining some of the background to the debate that surrounded the May and June issues of the *Canadian Journal of Fisheries and Aquatic Sciences*. In the May issue, three respected scientists from three different universities wrote a paper in

which they charged the federal government's Department of Fisheries and Oceans (DFO) with interference in the process of determining fish quotas and publication of such information. DFO staff fought back vehemently, and a debate that would normally have taken place only in scientific circles erupted into the media.

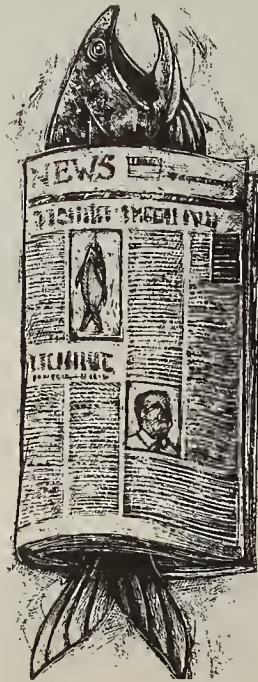
My sense is that this occurred because fish stocks in Atlantic Canada have gone into serious decline, cod stocks have been closed to fishing, and a substantial segment of the Newfoundland population has lost its livelihood. The facts are not in question.

The public — and the public through the media asking questions — wanted to know: Why did this happen? Who was responsible? Why didn't someone tell us? What can we do? When will the fish come back?

Unfortunately, virtually every fish stock in the world that has been exploited by humans has gone into serious decline or extinction.

If nothing else, the erosion of Atlantic Canada's fish stocks has provided one or two lessons for the community of "fish" scientists and perhaps the larger scientific community as well. This concerns the handling of the results of our research and how this information is interpreted and used by both government and the public.

Increasingly, the work of scientists is expected to demonstrate a certain transparency and accountability, as has become the case in other sectors of the workforce. Although this is



laudable and even desirable, several observations should be made. Unfortunately, the general public has little understanding of 1) the basic principles of science, 2) the general practice of science, 3) how scientists must deal with disagreement among themselves, and 4) how governments interpret scientific advice, or that governments may misunderstand or even ignore advice that cannot be fully substantiated from factual information alone.

Because of the specialized nature of their work, scientists are occasionally criticized for belonging to closed, secretive societies. For that to change, more education and discussion are required on the part of all three groups — the public, government and the scientific community.

What has not changed is that the public relies on its government, and the government relies very much on science and technology to ensure and enhance the health, welfare and prosperity of its citizens. The difference today is that science and technology practitioners are under growing scrutiny, not only of the results of their research, but also of its interpretation and implications.

For things to get better, we all need to do some work. The issues have to be explained and understood, scientific fact must be separated from scientific uncertainty, and the options available with their attendant benefits and costs need to be examined.

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Journal Won't Shy Away from Controversy, Says Roff

Continued from page 1

submissions. Therefore, the journal's continued reputation is assured."

Bruce Dancik, editor-in-chief of NRC journals, describes CJFAS as one of the council's flagship journals. It is also one of Canada's oldest journals, first launched in 1901. From 1938 to 1979, it was published under the title *Journal of Fisheries Research Board of Canada*. Several name and ownership changes later, most of which occurred in the federal government's Department of Fisheries and Oceans, it finally washed up on the shores of the NRC in 1992. It moved from Ottawa to Guelph earlier this year and began operations June 1, with full transfer of all responsibilities completed Sept. 1.

CJFAS is an unusual academic journal in that it publishes not only research findings, but also papers on processes and methodologies of direct relevance to aquatic systems at any level of organization, from molecular to ecosystems.

A recent tradition in the journal is an open forum for discussion, offering comments on policy — past, present and future. As a result, CJFAS appears well grounded in the current issues of the day, particularly when those issues are as newsworthy and contentious as one of Canada's chief economic resources — fish.

In fact, Roff and Ferguson made a splash with the very first issue that appeared after they became editors. A debate ensued following publication of a paper titled "Is Scientific Inquiry Incompatible with Government Informa-

tion Control?" The work of researchers from three universities, the article argued that "non-science influences can interfere with the dissemination of scientific information" in the Department of Fisheries and Oceans, particularly "in the wake of the biological and socioeconomic catastrophes associated with recent fishery collapses." The article generated a firestorm of debate, and replies in the June issue were widely reported by the mainstream media, who would not normally find news in academic journals. (See Insight on page 6.)

Roff took it in stride. "In good times — when there's lots of fish and no pollution or whatever other factor is impacting fish stocks — then the journal probably won't be generating controversy. But when times are bad, as they are now, there will be conflicts, and opinions will vary on policy and what to do. But I think as long as that conflict is healthy and leads to an airing of views rather than personal sniping, then it's a good thing."

Adds Mikoski: "The recent dialogue resulting from the May issue of CJFAS serves to emphasize the importance and value of an objective vehicle for publication of reputable research findings and open debate around the ensuing issues. It is that vehicle that CJFAS has and will strive to be."

Roff stresses that the journal under his editorship will not shy away from future controversy. In fact, he regards CJFAS's new independent status as an attribute.

"The main responsibility of the journal is publication of scientific research, but major issues such as water pollution and collapse of fish stocks are progressively leading to controversies among scientists, industry, the public and government," he says. "Papers in forthcoming issues of the journal may be controversial in these respects, but the science must remain independent of influence. The transfer of the journal from government responsibility to the more neutral climate of academia is therefore timely."

The journal has 1,695 subscribers and publishes 300 manuscripts a year. As a condition of their contract with NRC, Ferguson and Roff have a full-time editorial assistant, Holly Foster, and three part-time assistants.

Although the editorial and day-to-day operations of the journal have moved to U of G, NRC Research Press will continue to be the publisher and retain overall ownership, says Roff.

"NRC has a full and very professional publication staff who take the manuscript and transform it into a press-ready electronic form, which is then sent out for printing and is also set up on the journal's own Web site."

A faculty member at Guelph since 1968, Roff earned his BA and MA from Cambridge and PhD from Newcastle. Ferguson joined the Department of Zoology in 1986, after earning her B.Sc. and M.Sc. at Guelph and her PhD from the University of Montana.

BY ALEXANDER WOOLEY

LETTERS

MAD VAC MAKES GROUNDS SAFER

I AM WRITING IN RESPONSE TO THE Oct. 9 letter from Prof. David Douglas in which he says the University employs a Mad Vac vehicle and operator "to waste time, energy and money vacuuming leaves, individual pieces of paper and other litter."

In fact, the Mad Vac also removes unsightly cigarette and cigar butts, dumped garbage, vomit, feces, pine needles, bottles, cans and, most important, shattered glass. The bottom line is that the Mad Vac and I together make the grounds a safer place for the public at large.

As operator of the Mad Vac, I know the job we do is not a waste of money, time or energy. In fact, we do the work of five full-time Grounds staff, which is important because the Grounds Department has been drastically downsized over the past several years.

Wet leaves and pine needles can be hazardous to the health and safety of the public. If left to accumulate on the walks, stairs and wheelchair ramps (as David Douglas suggested), someone could have an accident slipping on the leaves. This is a scenario neither I nor the University wants to see happen. Does the professor?

He also says in his letter that students are puzzled by the removal of leaves. This statement puzzles me because I have been stopped countless times by students, faculty, visi-

tors and staff members complimenting me on the excellent job the Mad Vac and I do and telling me to "keep up the good work."

Perhaps the professor should walk the campus after a pub night or a special event just to see the mess left behind, a mess the Mad Vac and I remove.

Finally, I am also puzzled by David Douglas's comments because they lack knowledge and facts. As a professor, he deals with knowledge and facts, does he not? So why would he make public comments about the Mad Vac and its operation without first obtaining knowledge and facts about it. These could have been obtained by simply calling the Grounds Department, something he did not do.

TIM GAW
GROUNDS DEPARTMENT

A SPECIAL THANKS

I WISH TO THANK MY CO-WORKERS in the Housekeeping Department for my lovely retirement party Oct. 9 and for the cards and gifts. I wish to pay special tribute to Rick Regier from the Structural Shop for his kind words and to the young men in Mills Hall for donating their lounge to hold the event and for their lovely gifts. Being their housekeeper has been an interesting challenge, and the respect I have received from them will always be treasured.

PAULINE McISAAC
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ARBORETUM

The Arboretum is hosting a free Halloween program for families Oct. 25. It features treats, activities and fun for all ages. Sponsored by NEST, the hour-long program runs three times — at 6, 7 and 8 p.m.

"Fall Festa Fantastica," a gala fund-raising dinner and auction for the Arboretum, is Oct. 24 at 6 p.m. at the Arboretum Centre. Cost is \$39. Tickets are \$65. To reserve, call Ext. 2113.

Interpretive naturalist Chris Earley leads a workshop on identifying gulls Nov. 4 and 11 at 7 p.m. at the Arboretum Centre. Cost is \$39. Register by Oct. 28 at Ext. 4110.

Theatre in the Trees presents *The Cemetery Club*, a comedy by Ivan Menchell, beginning Nov. 8. Buffet opens at 6:30 p.m.; showtime is 8 p.m. Tickets are \$45. Call Ext. 4110 to reserve.

ART CENTRE

A display of 35 frames transformed by prominent artists into works of art continues at the Macdonald Stewart Art Centre until Nov. 22, when the frames will be auctioned at a gala at 7:30 p.m. Tickets for the auction party are \$25 and are available at the art centre information desk.

COMMUNITY EVENTS

Sinfonia Mississauga, a string ensemble directed by John Barnum, performs works by Elgar, Dvorak and Max Reger Nov. 2 at 7:30 p.m. at Chalmers United Church. Tickets are \$12 in advance or \$15 at the door. For tickets, call 822-8778 or 836-9316.

The Canadian Federation of University Women (CFUW) meets Oct. 28 at 7:30 p.m. at the Guelph Steelworkers Centre, 89 Dawson Rd. Guest speakers Cindy Adams and Suzanne Read of CFUW will examine "Sciences in the School: A CFUW Success Story." For more information, call Joyce George at 856-9094.

The Guelph Historical Society meets Nov. 4 at 8 p.m. at St. Andrews

Church. Dorothy Scott, archivist of the Enhroiders' Guild, explains "Samplers in Fabric — What They Tell Us About the Past."

CONCERTS

The concert slated for Oct. 18 to mark the 30th anniversary of U of G's Thursdays at Noon series has been rescheduled to Nov. 7 at 8 p.m. at War Memorial Hall. Tickets are \$10 and \$7 and are available at Ext. 3127.

The School of Fine Art and Music's noon-hour concert series continues Oct. 23 with Jaap Schroeder on baroque violin. Prof. Mary Cyr on viola da gamba and Sandra Mangsen on harpsichord. An alumni concert runs Oct. 30 with mezzo-soprano Sally Tomasevic and soprano Laura Jeffrey. Pianist Tom Plant performs Nov. 6. Concerts begin at 12:10 p.m. in MacKinnon 107. Admission is free.

CONFERENCES

The Department of History hosts the annual Tri-University History Conference Nov. 1 from 9 a.m. to 4 p.m. in OVC 1713/1715. Keynote speaker is Natalie Zemon-Davis, author of *The Return of Martin Guerre*. Graduate students and faculty from Guelph, Waterloo and Wilfrid Laurier will also present papers. Cost is \$15 general, \$12 for students. For more details, call Ext. 6528.

DISCUSSION

The Our World series presents Prof. O.P. Dwivedi, Political Science, discussing U of G's India semester Oct. 28. On Nov. 4, the topic is "Rural Telecommunications and Development" with Prof. Don Richardson, Rural Extension Studies. Sessions begin at noon in UC 429.

LECTURES

OVC's 1997 Schofield Memorial Lecture Oct. 23 features Harley Moon of Iowa State University, a specialist in the field of infectious diseases, discussing "Comparative Medicine II: Tracing Scientific Roots to Schofield." The talk begins at 3:30 p.m. in War Memorial Hall.

The School of Fine Art and Music hosts two artist talks Oct. 29 in Zavitz 320. Calgary video and installation artist Leila Sujir, who will be the school's artist-in-residence Oct. 27 to 31, discusses her work at noon. Toronto multimedia artist Buseje Bailey speaks at 1 p.m. At 5:30 p.m., Bailey will explore "Contemporary African Diasporic Art in Canada" in MacKinnon 114.

The University Centre and Central Student Association's lecture and author series continues Oct. 30 at noon with J.L. Granatstein, author of *The Decline of Canada's Universities*, and Nov. 3 at 7:30 p.m. with Nick Craine, author of *Portrait of a Thousand Punks*, and Noel Baker, author of *A Screenwriter's Diary*. Featured Nov. 4 at 7 p.m. is Patricia Pearson, who wrote *Violent Women and the Myth of Innocence*. For locations, call Ext. 3903.

MISCELLANEOUS

Watson Hall is planning a 25th-anniversary reunion. Any interested former Watsonites can call Becky at Ext. 78347 or Kim at Ext. 78336.

OPEN HOUSE

Teaching and Support Services will offer demonstrations of its video-conferencing facilities Oct. 29 from 1 to 3 p.m. in Day Hall.

SEMINARS

The Department of Physics presents astronomer Robert Thacker of the University of Western Ontario discussing "Simulations of Galaxy Formation" Oct. 28 and University of Waterloo physicist Michael Gingras on "The Vortex Liquid, Crystal and Glass Phases in High-*tc* Superconductors" Nov. 4. The talks begin at 4 p.m. in MacNaughton 113.

The Department of Biomedical Sciences graduate student seminar series features Michael Neal on "Genetic Effects of t(Xp+14q-) That Contribute to Subfertility in Carrier Sows" Oct. 24 and Kristen Young on "Reproductive Endocrinology of the Black-Footed Ferret" Nov. 7. The talks begin at 12:30 p.m. in OVC 1642.

The Axelrod Institute of Ichthyology's "Loaves and Fishes" seminar series runs Tuesdays at 12:30 p.m. in Axelrod 168. Next up are graduate students Greg Le Breton examining "Sturgeon, Sex and Signatures" Oct. 28 and Louise Porto explaining "The Impact of Low-Head Barrier Dams on Fish Movement" Nov. 4.

The Plant Biology Council presents Prof. Tom Hsiang, Environmental Biology, discussing "Fungal Warfare Under Snow: Diversity and Management of Snow Mould Pathogens" Oct. 29 and Andrea Wolfe of Ohio State University on "The Effect of Relaxed Functional Constraints on the PS Gene *rbcl* in Non-Photosynthetic Plants" Nov. 5. The seminars begin at 3:45 p.m. in Axelrod 259.

The biochemistry seminar series continues Nov. 5 with Ajit Chakrabarty of the Ontario Cancer Institute and the University of Toronto discussing "Folding β -Sheets: A Folding Intermediates of a Greek Key β -Barrel Protein. B. Amyloid Formation in Alzheimer's Disease" at 12:10 p.m. in MacNaughton 222.

Next speakers in the Department of Economics seminar series are Russell Davidson of Queen's University, who explains "Bootstrap Testing in Non-linear Models" Oct. 24, and Guang-jia Zhang of the Bank of Canada, who discusses "Monetary Transition Mechanisms: A Dynamic General Equilibrium Approach" Oct. 31. The seminars run from 3:30 to 5 p.m. in MacKinnon 238.

SYMPOSIUMS

Philosophy professor Bill Hughes, who recently retired after 32 years at the University, will be honored at a symposium on "The Philosophy of Law" Oct. 31 and Nov. 1. It will include talks by guest speakers and a round table on affirmative action, chaired by Hughes. Events run Friday at 8 p.m. in MacKinnon 107 and Saturday from 9 a.m. at the Macdonald Stewart Art Centre. For more details, call Ext. 3885.

The Equine Research Centre presents

a "Stock Horse Symposium" Nov. 22 from 9 a.m. to 5 p.m. in Thornbrough 100. Cost is \$69. To register, call 837-0061 or fax to 767-0061.

THEATRE

U of G drama students present Anton Chekhov's *The Cherry Orchard* Oct. 27 to Nov. 1. Directed by Prof. Harry Lane, the play begins at 8 p.m. at the Inner Stage. Tickets are \$6 Monday to Wednesday and \$8 Thursday to Saturday. Call Ext. 3147 for tickets.

THESIS DEFENCES

The final examination of Diana Hamilton, a PhD candidate in the Department of Zoology, is Nov. 4 at 2:30 p.m. in Room 259 of the Axelrod Building. The thesis is "Community Consequences of Habitat Use and Predation by Common Eiders in the Intertidal Zone of Passamaquoddy Bay. The adviser is Prof. Tom Nudds.

The final examination of M.Sc. candidate Louise Porto, Zoology, is Nov. 5 at 2:30 p.m. in Room 259 of the Axelrod Building. The thesis is "The Effects of Low-Head Barrier Dams on Fish Movement." The adviser is Prof. David Noakes.

The final examination of Wei Xu, a PhD candidate in the Department of Geography, is Nov. 7 at 10 a.m. in Room 234 of the Hutt Building. The thesis is "Agricultural Land-Use Change in Relation to Agroecosystem Health." The adviser is Prof. Julius Mage.

WORSHIP

Roman Catholic Mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100.

A spirituality circle for women meets Fridays at 11:30 a.m. in UC 533. For more information, call Rev. Lucy Reid, Ext. 2390.

The Ecumenical Campus Ministry and Harcourt United Church offer non-denominational Sunday services weekly at 7 p.m. at Harcourt Church, 87 Dean Ave.

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IN THIS ISSUE

- 2 THE CAMPUS** United Way campaign reaches the halfway mark with \$97,500, many more fund-raising events planned.
- 3 STUDENTS, FACULTY** will benefit from new programs in Teaching Support Services.
- 4 RETIRED** family studies professor Claude Guldner shares some of the keys to embracing life.
- 5 CHEMIST** earns kudos from Chemical Society of Canada for ground-breaking research in field of electro-chemistry.



HOME COOKIN'

The food was fresh off the farm last week as 16 OAC diploma students living in a cluster in South Residences shared the fruits of their family farms at a dinner prepared in the Eccles Centre. The students invited several of their professors to share in the meal, which included, from left, turkey from Darryl Shaw of Conn, wine from Lindsay Puddicombe of Winona, apple pie from Carl Pelkmans of Lakeside and buns from Sarah Amos of Pictou.

PHOTO BY MARTIN SCHWALBE

NSERC Tour Underscores Importance of Funding

Canada's largest scientific granting council sees what its research dollars are doing at Guelph

ONE OF U OF G'S LEADING research sponsors learned just how important its support is during a two-day visit to campus last month.

On Oct. 20 and 21, representatives of the Natural Sciences and Engineering Research Council (NSERC) combined a scheduled council meeting with a program of educational and social events to learn more about the people and happenings at U of G. The visit was led by NSERC president Tom Brzustowski, who received an honorary D.Sc. from U of G in 1994.

NSERC is Canada's largest scientific granting council. In 1996/97, it committed \$12.4 million in research funding to Guelph – 3.4 per cent of the council's national research grant total. With 21 members and a full-time president, NSERC meets three times a year at various locations throughout Canada. Only once a year does it meet at a university; this year, responding to an invitation from president Mordechai Rozanski, it selected U of G.

"We take great pride in the success of our basic research in many of the sciences, which are part of the NSERC mandate," Rozanski said in welcoming the guests. "We're honored to have members of the council meet our faculty and graduate students and see our facilities for themselves."

NSERC support touches a wide variety of disciplines on campus, including life sciences, agriculture, family and consumer studies, physical and engineering science, social science and veterinary medicine. Specifically, council funds have resulted in six industry chairs, three new-faculty awards and many collaborative research and development grants totalling more than \$8 million in the last five years. Guelph faculty

have also been active in the council's strategic grants program, receiving a total of almost \$11 million over the same period. Nationwide, federally funded NSERC will invest \$433 million in university-based research and training during 1997/98.

On the first day of the council visit, Prof. Iain Campbell, provost and vice-president (academic), hosted a video conference between NSERC members and Prof. Larry Milligan, vice-president (research),

who was in Britain on a site visit. Campbell commended NSERC for pressing a fundamental research agenda with the federal government. He stressed that funding for both basic and applied research must continue to go hand in glove.

"While we are one of the most active universities in application of research, support of fundamental research from the granting council is absolutely crucial to this institution," he said.

Milligan then outlined the University's future directions in research. He noted that in some areas at Guelph – such as the food, plant and animal sciences – it's not unusual to see research of the most theoretical nature carried through to practical application. He gave several examples of how Guelph is also fostering support for its research activities, in part, by building partnerships with the private sector and government. These included the Guelph

Food Technology Centre (GFTC), U of G Research Park, Guelph University Alumni Research and Development (GUARD) and the enhanced partnership agreement with the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA).

Milligan's message was reinforced later when the NSERC visitors toured a number of U of G facilities, including the Laboratory Services Division, GFTC, Hagen Aquaculture, Transgenic Plant Research Complex, Turfgrass Institute and Environmental Research Centre, and Elora Research Station.

Following the tours, Rozanski hosted the council members at a reception and dinner also attended by government and industry representatives, campus NSERC committee members and chair holders, Royal Society fellows, Research Board members and students holding NSERC fellowships and scholarships. The president told the guests that U of G has strongly supported efforts to achieve a major increase in the NSERC budget.

"We are committed to working with the council to gain enhanced funding for the basic research and equipment grant and scholarship programs that underpin all our work," he said. This is even more important as Canada Foundation for Innovation funding for research infrastructure increases the expectation of NSERC research funding, he said.

Rozanski also underlined his hope that private-sector partners will continue to consider providing support for basic exploratory research at Canadian universities.

"An investment in the continuum of research would go a step beyond

continued on page 6

Bacterial Network Gets Long-Term Support

Guelph microbiologists part of nationwide team to combat human disease

GROUND-BREAKING infectious disease research at U of G has received a long-term commitment from the federal Networks of Centres of Excellence (NCE) program.

The NCE selection committee has announced it will award the Canadian Bacterial Diseases Network (CBDN) \$3.8 million a year to help continue its research efforts for the next seven years.

The CBDN, an accomplished national organization with a strong Guelph presence, was founded in 1990 as part of the NCE program. It maintains an advanced knowledge base through collaboration with scientists and industry nationwide.

"The renewed funding from the NCE recognizes the value of our previous research and the solid interactions CBDN has with its industrial partners," says Prof. Chris Whitfield, Microbiology, co-ordinator of the CBDN in Guelph.

"Developing strategies to diag-

nose and combat human disease requires a long-term investment. The continued support of the NCE is critical to our work."

The NCE program brings together research teams from all provinces and disciplines to work in co-operation with universities, industry and government on problems of strategic importance to Canada.

The decision to provide additional NCE program support to seven networks follows a review by an independent committee. Industry Minister John Manley, Health Minister Allan Rock and Secretary of State Ronald Duhamel (Science, Research and Development) announced the results two weeks ago.

Creating strategies to diagnose, prevent and treat today's most critical bacterial diseases is a central objective of the CBDN. This struggle has become more difficult with the challenges of anti-bacterial drug resistance and emerging new diseases.

Scientists at the CBDN focus on

research in the areas of vaccines, diagnostics and therapeutics. The Guelph branch of this network consists of Whitfield and four other faculty members from the Department of Microbiology — Profs. Anthony Clarke, Terry Beveridge, Joseph Lam and Lucy Mutharia. Prof. Larry Milligan, vice-president (research), is a university member on CBDN's board of directors.

By analysing pathogens in humans, fish, cattle and other species, and by collaborating findings with other research centres throughout Canada, the CBDN is quickly becoming an international leader in the fight against bacterial disease.

Other participating institutions in the CBDN are 15 universities, three hospitals, 37 industry partners, 12 research organizations, seven federal agencies and nine provincial agencies.

BY SARAH HAINES
OFFICE OF RESEARCH

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We're halfway there!

Campus United Way campaign raises \$97,500 toward its \$186,400 goal

THAT WAS THE NEWS Oct. 31 from U of G United Way co-chairs Nancy Sullivan, vice-president (finance and administration), and Prof. Wayne Martin, Population Medicine. The University campaign has raised \$97,500 toward its \$186,400 goal.

"Keep up the good work," says Sullivan, who noted that the campus committee is also striving to exceed last year's 35-per-cent participation rate.

The University community has traditionally been one of Guelph's strongest supporters of the United Way, giving more than 12 per cent of all money raised locally. The Guelph-Wellington campaign has reached 24 per cent of its \$1.6-million goal.

Every penny counts

Visit the fifth floor of the University Centre to take advantage of two raffles and a penny table sponsored by Human Resources staff:

- A penny table will be set up Nov. 13, with draws made the following day. Tickets are 10 for \$2 or 30 for \$5.
- Raffle tickets on three health and beauty prizes will be drawn Nov. 19; tickets are \$2 each or three for \$5. Prizes are a visit to Mr. C's Hairstyling in Guelph, a manicure from Aesthetic Studio in Fergus and Johnson & Johnson products.
- A manager's dinner raffle will be drawn Nov. 26, with dinner prepared for the winners on Nov. 28; tickets are \$3 each or two for \$5.

Tried, tested and tasty!

Staff in the Office of Open Learning (OOL) have relinquished some of their favorite and most-requested recipes to benefit the United Way. OOL cookbooks will go on sale Nov. 12 at a cost of \$7 and are available from any staff member in Open Learning or in Room 159 of Johnston Hall. Cover design and printing were donated by Peter Mee and Eastwood Printing, so all proceeds go to the campus United Way campaign.

Meanwhile, the annual Laura Secord candy sale in the University Centre courtyard is slated for Dec. 3 and 4. Candy will be discounted 10 per cent, and 10 per cent of the total sales will be donated to the United Way.

Early-bird donors capture prizes

THE 35 UNITED WAY DONORS listed below are also winners in the first of three incentive draws that will take place during the eight-week campus campaign. All pledge cards and receipted donations received by Oct. 22 were included in the draw. Similarly, donations received by the Nov. 5 and 19 draw dates will also have a chance to win one of the more than 130 prizes donated by individuals and local businesses.

All donors, including incentive draw winners, will also be eligible to win the grand prize of a one-week Caribbean holiday for two — valued at \$2,300 — to be drawn Dec. 8 at the United Way volunteer appreciation event. The holiday to Sun Village Costa Linda in Santo Domingo, Dominican Republic, is sponsored by Guelph-based Golding Travel and Sundlight Holidays.

- T-shirt, courtesy of Dino's Athletic Direct — Michael Hollingshead, Animal-Care Services
- Kamik/Dutch shoes, Vinjoy Shoes — Sharon Anthony, Undergraduate Program Services
- \$10 gift certificate, Diana Restaurant — Flavia DaMaren, Human Resources
- Movie rental, Blockbuster Video, Hartland Market Square — Tracey Alberico, Human Resources
- \$5 gift certificate, Everlasting Impressions Christian Bookstore — Sarah Builder, Continuing Education
- Relief wrap, Prime Care Pharmacy — Jan Williams, Human Resources
- Bag of medical feline weight-control food, Kortright Animal Hospital — Joanne Waechter, Molecular Biology and Genetics
- \$5 gift certificate, Zehrs, Hartland
- Market Square — Elaine Smith, Clinical Studies
- \$10 gift certificate, Framing & Art Centre — W.D. Evans, retiree
- T-shirt, Paramount Sport — Cecil Forsberg, Microbiology
- Gift certificate, Midnight Sun Tanning Salon — Shanaz Negi, Development & Public Affairs
- \$20 gift certificate, Key Centre, Stone Road Mall — Ken Janovick, Crop Science
- CD, Music World, Stone Road Mall — Frank Burkard, Electrical Shop
- \$20 gift certificate, Baronessa — Claudia Wagner Riddle, Land Resource Science
- \$40 gift certificate, Nat Mirota — Monica Sartori, Academic Records
- Basket arrangement, Mrs. B's Gift House — Margaret Agnew, Human Resources
- \$15 gift certificate, Kama Quality Futons — Anna Orenczuk, retiree
- Movie passes, Bookshelf Cinema — Chuck Cunningham, Registrar's Office
- \$20 gift certificate, Guelph Poultry Market — Steven Scadding, Zoology
- \$20 gift certificate, The Pinata — Juanita Arnold, Development and Public Affairs
- \$30 gift certificate, La Maison De Madeleine — Paul Briggs, Networking Services
- Videotape, Independent Study/OAC ACCESS — Elspeth Newton, retiree
- Five pounds of honey garlic sausage, Rowe Farm Meats — James Lennie, Networking Services, and Malcolm Stewart, Engineering
- Bottle of champagne, Thom Herrmann, Psychology — Liz Reemeyer, OVC Information Technology Services

- Maple syrup, Jeff Schieck, Office of Research — Margaret Bates, Veterinary Teaching Hospital
- Shower radio, Guelph Daily Mercury — Susan Mannhardt, Zoology
- Fifty pounds of Yukon Gold potatoes, Department of Environmental Biology — Bruce Rush, University Systems
- Large pizzas, Hospitality Services — Bonnie Hamilton, Clinical Studies, and Rick Nigol, Open Learning
- Coffee mug and coffee card, Pages — Hugh Ayers, retiree
- One-year modem hookup, Computing and Communications Services (CCS) — George Harauz, Molecular Biology and Genetics
- \$10 laser cards, CCS — Joanne Dupont, Graduate Studies, and Debbie Kron, Enrolment Statistics
- SPARK T-shirt, Office of Research — Anna Schajnoha, Molecular Biology and Genetics
- Wooden bowl, Tom Hullah — Eileen Cook, Clinical Studies

Winners can claim their prizes at the United Way office, located in the executive offices on Level 4 of the University Centre, Ext. 3636.

@ GUELPH

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UNIVERSITY
of GUELPH

Chilly out, chili in

IT WAS CHILLY OUTSIDE, but inside the atrium at Laboratory Services, things were hot, hot, hot.

Chili aficionados turned up the heat recently for their fifth annual "Great Laboratory Services Division Chili Challenge," a fund raiser for the United Way.

Ten teams of chefs dished out their best chili, raising \$211 in the process. Braving the heat as judges were campus campaign co-chairs Nancy Sullivan, vice-president (finance and administration), and Prof. Wayne Martin, Population Medicine, along with Roger Wheatcroft, a research scientist with Agriculture and Agri-Food Canada.

Entries this year varied widely in

their ingredients and in zest. Catering to all diets and tastes, awards were presented in every category imaginable — gassiest, chunkiest, spiciest, etc. A vegetarian tofu chili was also entered into the challenge for the first time this year.

The overall winning chili was prepared by Kate Barlow, a molecular technician at Agriculture and Agri-Food Canada.

Other upcoming United Way fund-raising events on campus include a Hospitality Services garage sale Nov. 8 from 8:30 a.m. to 1 p.m. in Mountain Dining Hall and head shaving sponsored by the Central Student Association Nov. 12 from 1 to 5 p.m. in the University Centre courtyard.

LEST WE FORGET

This year's Remembrance Day service is Nov. 11 from 10:55 to 11:15 a.m. in War Memorial Hall. Classes will not be cancelled, but president Mordechai Rozanski has asked faculty to keep the time and date in mind when scheduling assignments and tests and in granting consideration to students who may miss part of their class to attend the service.

SENATE HITS THE WEB

Everything you ever wanted to know about U of G's Senate is now available on the Web. Senate is up on the Web under "Academic" on the University's home page. Here, you can access information on the membership of Senate and Senate committees, meeting schedules, agendas and Senate bylaws. Senate minutes will also be published once they have been approved.

GETTING TO KNOW US

Fall Preview Day brought more than 2,000 potential applicants, their family members and friends to campus Oct. 26, from as far away as Winnipeg, Boston, New York and Texas. This is the most students and parents who have attended Fall Preview Day since it began seven years ago, says Chuck Cunningham, director of enrolment management and registrar services. After a welcome from president Mordechai Rozanski, participants attended a panel presentation by staff, faculty and student representatives, then headed out on tours of the campus. In the afternoon, they had an opportunity to continue their discussions with faculty, staff and students at displays in Peter Clark Hall. Organized by Janette Hogan and the Admissions Office, the day received support from many people on campus, says Cunningham. "Literally hundreds of faculty, staff and students were involved in making the day successful."

ADOPTION STUDY NEEDS PARTICIPANTS

Prof. Michael Sobol, Psychology, is conducting the first in-depth study of families in which a step-parent has adopted the child of the spouse. If you were adopted by a step-parent and would be interested in participating in an interview about step-adoption, send e-mail to sobol@css.uoguelph.ca or call Ext. 2107.

AEROBATHON NOV. 15

Hundreds of fitness enthusiasts will take part in U of G's 10th annual Aerobathon Nov. 15 to raise money for the Big Sisters Association of Guelph and U of G's Child-Care and Learning Centre. Open to all ages and fitness levels, the Aerobathon features hi-low, step, aquafit, funk and boxercise, and runs from 1:30 to 4:30 p.m. in the west gym of the Athletics Centre. A minimum \$35 sponsorship is required; registration begins at 10:30 a.m. Forms are available at the Athletics Centre.



NEW SCHOLARSHIP AWARDED TO EIGHT Agriculture and Agri-Food Canada Minister Lyle Vancief, a 1966 graduate of Guelph, was on campus recently to announce the winners of a new master's and doctoral scholarship program offered by his ministry. U of G distinguished itself by capturing eight of the 29 national awards. From left are M.Sc. student Durdia Slavic, PhD students Sandi Bowland and Heather Cromar, Vancief and PhD students Gregory Simpson and Denise Goens. Missing are M.Sc. students Patrick Crampton and Gregory De Vos and PhD student Geoffrey Cloutier.

PHOTO BY MARTIN SCHWALBE

TSS Scores a Hat Trick

Students will be big winners as faculty take advantage of new programs to improve teaching practices

TEACHING AND SUPPORT Services (TSS) has launched three new initiatives to help faculty and instructors explore their teaching practices and make better use of videoconference and Internet technologies.

A recent mailing from the office of TSS director Prof. Julia Christensen Hughes invited faculty to try the new services—videoconferencing, Internet training and peer consultation.

Christensen Hughes says interactive videoconferencing can save travel time and costs normally incurred by bringing in guest lecturers, external examiners and conference participants. It gives students a chance to meet face to face with distinguished speakers, provides the option of extending classes to remote locations and makes it possible to connect students with distant employers for co-op interviews.

Videoconferencing services from the TSS meeting room in Day Hall or from one of several larger sites on campus are also available to non-academic departments and community businesses. TSS staff Steve Borho and Ruth Gillespie will provide technical support, including the research necessary to find a site for the off-campus participants to use. For more information, call Ext. 8532.

Another project of the learning technology support group at TSS is a three-level training program designed to introduce faculty to the World Wide Web, help them design a Web page or implement Web-based resources into their courses, and provide technical and design support for large projects such as creating a Web course module. The Club Web training program is a joint production of TSS, Computing and Communications Services (CCS) and the U of G Library.

"It's a collaborative response to the needs of faculty," says Christensen Hughes. "A faculty member who is just beginning to explore the Internet can begin at level one, while others may jump in

at a higher level, choosing the activities that suit their individual needs."

She sees many benefits to such a team approach to Web development: linking faculty with experts in learning technologies; incorporating design, sound and video productions; and opening the door to development grants that could offset the production costs of some Web projects. Contacts for the Web development program are Aldo Caputo of Open Learning and TSS, Mary Nairn in TSS and Midge Brochet in CCS.

Finishing the hat trick is a new peer consultation program that gives faculty and instructors an opportunity to reflect on their teaching methods and classroom presentation. Modelled after a similar initiative at the University of Alberta, the Guelph program is being co-ordinated by Prof. Ron Stoltz, Landscape Architecture.

About a dozen Guelph faculty have been trained as peer consultants and are available to faculty members on campus who wish to receive feedback on their teaching. Prospective clients for peer consultation could be new faculty who need to build confidence in their teaching style. Or they could be more senior faculty who want to build a teaching dossier, are concerned about student ratings of their teaching style, have experienced an increase in class sizes or have recently implemented something new in the classroom and want to evaluate its effectiveness.

The consultation process may differ with individual faculty depending on their specific goals, but Christensen Hughes says it would typically include one or more classroom visits by the peer consultant, who may also implement a student questionnaire or conduct a focus group of students enrolled in the client's classes. The peer consultant prepares a written report for the faculty client, and together they come up with suggestions on how to resolve a problem or improve a good technique, if appropriate. The entire process is completely confidential.

Faculty who are interested in learning more about the peer consultation program can call Stoltz at Ext. 6179 or Christensen Hughes at Ext. 6938.

During the training of peer consultants, Christensen Hughes and other faculty volunteers went through the process with each other and were encouraged by the response from students. "Students welcomed the opportunity to give feedback and were impressed by the fact that their professors were trying to enrich the teaching/learning experience," she says. That is ultimately the goal of TSS, she adds, as it works with faculty to help them achieve their individual teaching goals and as it fosters growth in the University's learner-centredness.

BY MARY DICKIESON

PEOPLE

PROF TO ADVISE ON VISUAL ARTS

Prof. Ron Shuebrook, Fine Art and Music, has been appointed to the visual arts advisory committee of the Canada Council. The committee, made up of four or five experts in the field, reviews and recommends to the Canada Council board any policy changes or new policies for the visual arts in Canada.

WRITING EARNS KUDOS

U of G collected four awards Oct. 25 at the Canadian Farm Writers' Federation (CFWF) awards banquet for writers and broadcasters. Margaret Boyd of Communications and Public Affairs won the Alice Switzer gold award for best news release for a story about the link between gastrointestinal illness and *E. coli*-contaminated well water. *PigPens*, an Office of Research publication co-ordinated by SPARK (Students Producing Articles on Research Knowledge) and entered by Polly Stanley, captured the Felix Schmaltz silver award for best general periodical. Prof. Doug Powell, director of Science and Society, received the C.B. Fairbairn silver award for best daily press reporting for a *Globe and Mail* article about a deadly bacterial strain known as V-TEC. SPARK writer Hendrik Kahar won the Alice Switzer bronze award for best news release for an article about using furnace slag in crop production.

GRAD STUDENT HONORED

Jason Cathcart, a graduate student in the Department of Land Resource Science, is this year's winner of the Morwick Scholarship, which recognizes a current graduate student who has a distinguished academic record and has made an outstanding contribution to the life of the Department of Land Resource Science.

Funding Available for Women's Safety

Ministry provides \$50,000 for campus projects

THE WOMEN'S CAMPUS Safety Initiatives Committee is calling for proposals for innovative campus safety initiatives that will promote the safety of female workers and students at U of G.

The Ontario Ministry of Education and Training has provided Guelph with \$50,000 this year to implement the findings from safety audits, educate and inform workers and students about safety and security issues, and support programs that will address the safety and security needs of women on campus.

The committee encourages all members of the University community—both individuals or groups—to submit proposals. Submissions are especially encouraged from or on

behalf of the following at-risk campus populations: women with disabilities, female shift workers, women in non-traditional studies, lesbians or bisexual women, women of color, aboriginal women and female continuing education students.

Applications should include a detailed budget and must be submitted by Nov. 13 at 4 p.m. to Student Health Services in Macdonald Hall. Application guidelines are available from the Human Rights and Equity Office, the Central Student Association, the Graduate Students' Association, the Connection Desk on Level 3 of the University Centre, the information desk on the main floor of the centre or at the Web site www.uoguelph.ca/hre.

UNLOCKING THE DOORS TO WELL-BEING

"Five qualities, whether present at the heart of our families or in the core of our individual being, enable us to embrace life with passion"

During fall convocation, retired family studies professor Claude Guldner, founding director of Guelph's Couple and Family Therapy Centre, was named University professor emeritus in tribute to his distinguished career at U of G. Guldner, who recently received a lifetime achievement award from the American Association of Marriage and Family Therapists, won many teaching awards during his career and maintained an active research program that focused on sex therapy and the development of family systems theory. He has been involved in the training and professional development of family therapists throughout the world. The following is an edited version of his Oct. 8 convocation address to graduates of the College of Family and Consumer Studies.

AS A COUPLE AND FAMILY THERAPIST, I've always been interested in the dynamics and complexities of family. All of us have an interesting relationship with our families; at times they frustrate us to no end, yet we also love and cherish them to the end.

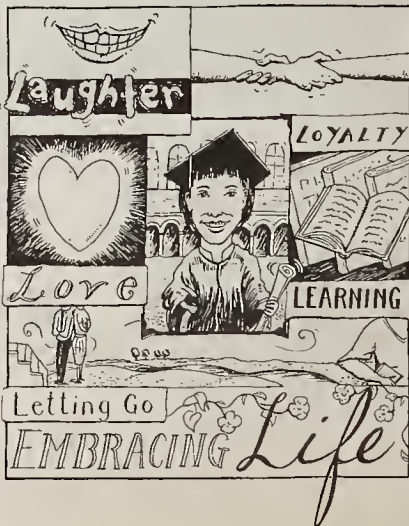
In the 38 years that my career has focused on issues of the family, the definition of family has changed greatly. We still have nuclear families and families of origin, but the organization and structure of these family forms have changed.

Almost half of our families today are single-parent families struggling to maintain family unity while supporting the family and often while acquiring an education. We also have families created by choice because so many people find the source of their love in non-traditional ways. We have families that are mixed by ethnicity, by race, by religious conviction, by sexual preference and by economic status. The point I am making is that we construct families in a wide variety of forms today.

When I reflect on my own clinical and research experience, and in reviewing the leading research studies that reported on elements of family wellness, some factors stand out. I want to share five qualities from this research because I believe these are the qualities of well-functioning individuals and families. I like to look on these qualities as vital keys for embracing life. It is my belief that these five qualities, whether present at the heart of our families or in the core of our individual being, enable us to embrace life with passion.

The first quality I want to encourage you to embrace is laughter. The French author Colette once said that "total absence of humor renders life impossible." She also said: "You will do foolish things, but do them with enthusiasm." We are often taught in life how to work, how to virtually sacrifice ourselves to a career, but we are seldom taught how to play. Yet we know that every child embraces play as a primary way to cope and manage life. If we are going to learn to have fun and fulfilment from our careers, we must learn to shatter the stereotypes of who we are as professionals.

The second key for embracing life is learning. Don't believe for a minute that learning is over. The Nebraska Symposium on Family Health found that those families that



had instilled in their members the love of learning, whatever form that learning might take, had better coping and decision-making skills than did individuals in families where learning was not emphasized.

Learning has less to do with mastering the body of knowledge related to your career than with your soul. Learning is soul work, and by making a play on words, we can say that it is also soil work. Let me share what I mean. In many ways, a family or a university is like a greenhouse. At a university, we try to create all the right conditions for the development of each student in the most adequate manner possible so that she or he leaves this place a competent professional person. We try to find the best soil to start you off in, we try to optimize the watering and fertilizing process. We have some idea of how long you need to be in this hothouse environment. In the end, though, to be of value to the environment, we have to transplant you into the real world. At this point, it is up to you whether you make it or not. It is up to you to listen to your environment for whispers of opportunity. You can transform the soil in whatever context you are planted because if you have done soul learning, you can learn your way through any difficulty and learn your way toward any goal.

Soul learning is reflective learning. To continually ask

yourself what is the meaning of this experience for me at this time, in this place, is the only way one keeps in touch with "lived experiences."

The third key for embracing life is learning to let go. Again, the Nebraska Symposium found that those families that made use of learnings from the past, yet placed emphasis on the present and the future, produced members who had higher levels of self-esteem and who more often actualized their life goals.

When I first started in the field of family therapy, our concerns were almost entirely about the family's past, the early family history and where people get stuck or hung up. The deficit theory of the family postulates that we are all products of dysfunctional families.

In the last decade, we have turned our focus to family resiliency and how it is that so many individuals and families have been able to deal with life so competently. I have become a firm believer in the power of visualizing goals with families and individuals that I work with. All of life is about choices and about decisions. Far too often, we allow doubts about our ability or competence to get in the way of taking a particular life direction. Ultimately, we have to put our dreams and visualizations into action – small steps, manageable steps – and then do it.

The fourth key for embracing life is loyalty. Loyalty is a quality of the self or soul, not an allegiance to some institution or concept.

You are about to become graduates of the University of Guelph, but that won't mean anything of importance to you unless you reflect on how this time spent here has been transformational of your life beyond the acquisition of academic knowledge, how your time here has shaped your character, your way of being in the world. Those reflections can create a loyalty far beyond any institution.

Family researcher Nick Stinnett found that those families that instilled a sense of loyalty, which he defined as a deep sense of mutuality and connectedness, produced family members who lived out an ethical and just perspective on self, others and society at large. Remember, we do not walk alone in this world.

The fifth and last element for embracing life is love. Every major family research acknowledges the importance of love for family and individual well-being.

Love in families comes in many forms. Usually, it starts out naive and innocent, but it is based on good intentions. It is certainly tested again and again throughout the life of a family. This love tests us all. Over and over, various research studies tell us that if you don't love yourself adequately, you cannot love others properly.

Love requires risk taking because there is never a guarantee on the investment. When we approach life with love, then we can love in one another the future good that each helps the other to unfold. As author Willa Cather wrote: "Where there is great love, there are always miracles."

COMPUTER GRAPHICS AND SCHEMES

We want a skilled person to make 3-D color graphics and schemes for a book on bovine teats. About 100 graphics and schemes need to be done by March 1998. Contact Dr. Thomas Geishauer, Department of Population Medicine, by fax at 763-8621 nr by e-mail at tgeishauer@ovcnet.uoguelph.ca.

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EXPLORING THE DEPTHS OF SURFACES

World-renowned work in electrochemistry earns kudos from Chemical Society of Canada

BY MARK MCCUTCHEON

CHEMISTRY PROFESSOR Jacek Lipkowski likes to dig into the surface of things. And when he does, he usually breaks new ground.

A faculty member at Guelph since 1983, Lipkowski has built an international reputation in both academic and industrial circles for his ground-breaking work in the field of electrochemistry. Next May, he'll be honored for the consistently outstanding calibre of his work and for his overall contributions to industry and society when he receives the Chemical Society of Canada's 1998 Alcan Lecture Award. This comes just two years after winning the International Society of Electrochemistry's 1996 Jacques Tacussel Prize, which recognizes an important contribution to an experimental electrochemical technique.

Beyond the accolades of the scientific community, a broad range of industrial applications speaks highly of the value of Lipkowski's research. In the late 1980s, when industry and government were looking for expert help in cleaning the complex cooling system of the Bruce Nuclear Power Plant, they turned to Lipkowski because of his electrochemical studies of organic layers on metal surfaces. Ontario Hydro, Atomic Energy of Canada Ltd. and the Natural Sciences and Engineering Research Council called on him to develop a new cleaning compound that would efficiently rid the Bruce cooling system of radiation without corroding its circuit parts.

Working with INCO and metal refineries in Thompson, Man., and Sudbury, Lipkowski has used his surface-specific analytic techniques to optimize nickel and copper refining processes at atomic and molecular levels. It's been estimated that the annual value of electrolytically produced metals in Canada is more than \$5 billion — an economic fact that finds Lipkowski's methods and discoveries operating at the heart of Canadian primary industry.

Lipkowski describes electrochemistry as a science that is "essentially at a node of many subdisciplines — analytical chemistry, material science, surface chemistry, solid-state physics and bioelectrochemistry." Such interdisciplinarity demands a high degree of collaboration, he says.

"It is beyond the intellectual capacity of one scientist to grasp all these broad areas of science. We have to collaborate to take advantage of the knowledge and methods of other subdisciplines and to transfer the discoveries originating in our laboratories to other areas that may benefit from them.

"The collaborations we have are synergistic... they over-



"University-based research is one of the strongest teaching tools.

Stories from our own research — our own experience of how to apply fundamental knowledge to practical problem solving — make the subject more interesting and relevant to a class."

come the naturally competitive character of research. We are fully aware that we accomplish much more when we pull together our resources. You may have competition within one discipline, but when you cross disciplines, the competitiveness melts down, and complementarity appears as the overriding factor."

Lipkowski's collaborative efforts follow two main routes — method development and problem solving, which both have a major impact on related fields such as material science, energy

conversion and biochemistry. In addition to collaborating locally with colleagues at Guelph, he has established regional links with McMaster University and Waterloo and international ties with the Fritz Haber Institute, the University of Ulm, Berkeley and Cornell.

With Phil Ross, a fuel-cell researcher at Berkeley, he edits *Frontiers of Electrochemistry*, a series that reviews what's been accomplished in the field and focuses attention on what is emerging. A fifth volume is now in the works. Lipkowski is also an associate editor of the international *Journal of Electroanalytical Chemistry* and on the editorial board of the American Chemical Society journal *Langmuir*.

Born and educated in Poland, Lipkowski began his career at the University of Warsaw before joining U of G 14 years ago. He says it's the Department of Chemistry and Biochemistry's working spirit and "gem" of an infrastructure that he most appreciates about his position here.

"We have a very good team in the department," he says. "Special recognition should go to our support staff. I have people coming to do research here from Berkeley and other well-established institutions in the United States and Europe, and they actually order things to be done in our shops, to make equipment they enjoyed working with here at Guelph."

Lipkowski's current work includes measuring forces between molecules in biological membranes fused to solid substrates, and determining the structure of the catalyst-solution interface to enhance fuel-cell performance. With colleagues at McMaster and Cornell, he is using X-ray spectroscopy to determine the mechanisms of metal electro-deposition reactions.

With all his research, Lipkowski believes it's important to transfer what he's learned into the classroom. "University-based research is one of the strongest teaching tools," he says. "Stories from our own research — our own experience of how to apply fundamental knowledge to practical problem solving — make the subject more interesting and relevant to a class."

Prof. John Goddard, chair of the Department of Chemistry and Biochemistry, notes that the accomplishments of Lipkowski's students are just one more measure of his contributions to his field.

"Prof. Lipkowski has been the research adviser for a large and talented group of graduate students, many of whom have gone on to win prestigious fellowships and to take up important positions in industries and universities," Goddard says.



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Paul Matsumoto of the Hagen Aqualab, right, leads NSERC visitors on a tour of lab's facilities. From left are Lorne Babiuk of the Veterinary Infectious Diseases Organization in Saskatchewan, Carolyn Hanson of the University of Waterloo and astronaut Julie Payette of the Canadian Space Agency.

PHOTO BY MARTIN SCHWALBE

Importance of Funding Highlighted

continued from page 1

current thoughts of research partnerships. The investment would lead to mutual and long-term advantages. . . . Increased investment in the full spectrum of excellent research, from basic to applied, is truly an investment in Canada's economic and social well-being and its international competitiveness. We must collectively understand that the uptake of new knowledge, technologies and services in everyday life has many and profound social and cultural dimensions."

On the second day of their visit, NSERC members learned more about the U of G Research Park from one its tenants - GUARD.

Brian Cox, GUARD's vice-presi-

dent (technology and business development), described the startup of GUARD and its progress to date.

Afterwards, Nigel Lloyd, NSERC's director general, research grants and scholarships, said GUARD "is a very exciting initiative and off to a great start. As we saw by the feedback following Dr. Cox's presentation, I think council members are genuinely interested in how GUARD endeavors to bring university research to market. This is very much in keeping with the council's own thoughts on the future direction of research in this country." (See related letter at right.)

BY JENNY TYE AND
ALEXANDER WOOLFE

LETTERS

GOOD RESEARCH MAKES GOOD NEWS

I HAVE SOME GOOD NEWS. I believe that 1997 has so far been an outstanding year of public success and recognition for Canadian S & T.

What I mean by that is that in the first few months of this year, the Canadian media gave serious attention to some very significant accomplishments by Canadian scientists and engineers. Recalling the major national stories that caught my attention, I see a chain of technical successes from east to west across Canada.

Here is what I mean. Off Newfoundland, the Hibernia platform has been completed and is in place. In the Maritimes, the fixed link to P.E.I. has been opened. Moving west to Montreal, we see that Bombardier's Regional Jet has crossed the magic threshold of 250 sales that makes it a money maker. Further west along the Ottawa River, the success of their products in world markets has led both Nortel and Newbridge to announce the creation of thousands of new jobs and major investments in facilities in Ottawa.

Continuing west, we come to Manitoba, where the Winnipeg Floodway worked successfully when tested by nature on the rampage. Moving to Alberta, we find that technology for extracting oil from the Tar Sands has quietly improved to such an extent that major new investments have been committed for additional capacity. And in British Columbia, the success of Ballard Power with its fuel cells has led to an alliance with Daimler-Benz to develop fuel cells for production vehicles.

There are Natural Sciences and Engineering Research Council stories associated with each of these developments. For example, the fixed link is instrumented so that the behavior of the bridge under load can be monitored. Nortel has been a partner to NSERC in setting

up industrial research chairs dealing with many areas of research in telecommunications in many universities.

The NSERC stories range over a rich history of basic research in the universities and research projects with industrial and government partners. But the common denominator is people — people who were supported by NSERC in their advanced training and accomplished people who contributed their expertise to the work of NSERC to make it better for those who would follow.

The stories I have mentioned are the ones I remember most vividly from the early months of 1997. Other people may have been struck by other stories, and there have been many new ones since. The point is that Canadian S & T is having a substantial positive impact on the prosperity and well-being of Canadians.

Canada's policies and programs from university research are working. Canadian researchers are being recognized as excellent at home and abroad. Both basic and project research of high quality are being done at Canadian universities. Canadian researchers and industry are learning to work together effectively. We are solving the problems of our geography by networking our research resources. Industry and government are recognizing the importance of research. And the positive effects of that research on the prosperity and well-being of Canadians are already important and growing visibly.

What we need now are the resources to stay the course and do enough of all these things to make a difference, because our future depends on it.

TOM BRZUSTOWSKI
PRESIDENT, NSERC

Guelph is Abuzz at the Royal

Display will showcase

eco-friendly biocontrols

Live insects will be showcased at the Royal Agricultural Winter Fair Nov. 6 to 15 as part of a U of G display on eco-friendly biocontrol strategies being used to combat environmental problems.

The environmental biology display will feature interactive learning centres for all ages and provide information on the role of insects in the environment. The learning centres focus on control of the European corn borer and Colorado potato beetle and biocontrol of purple looses-trife, dandelion, chestnut blight and botrytis on strawberries.

A new educational color poster of Ontario insects will be available at the U of G display, which is located in the Knob Hill Lanes section of the fair. An adjoining display will highlight the achievements of U of G alumni in the fields of biological sciences and the environment.

The displays will be staffed by U of G faculty, students and staff.



At Guelph holiday schedule

At Guelph will publish two more issues before the end of the fall semester - Nov. 19 and Dec. 3. Deadline to receive copy for those issues is one week before publication. The first issue of the new year will appear Jan. 14. Copy deadline for that issue is Jan. 7.

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Chevy Caprice, good shape, power steering and brakes, air, propane, 290,000 km, as is, best offer, 763-1929.

Used piano, Musette by Winter and Company, excellent condition, Susan, Ext. 6724 or 848-2548 evenings.

Olivetti ETV 260 computer, best offer, 824-5878 anytime.

Child's three-drawer oak dresser with mirror, child's maple desk with seven drawers and chair, 843-6580 after 6 p.m. weekdays.

1989 Plymouth Reliant LE, four doors, excellent condition, 116,000 km, 766-1464 after 5 p.m.

Roland LP 1100 laser printer, Swintec 8014S electric typewriter, best offer, Ext. 3282.

Ontario wool and mitten kits, lots of colors, knitting lessons available, Leslie, Ext. 6260 or 824-0116.

486 IBM-compatible (Intel 80486) computer, recently upgraded, 16-meg RAM, 28.8 external modem, CD-ROM, includes Canon Bubblejet 105X printer and software: DOS

7, Windows '95, WordPerfect 5.1, Quattro, WinMaslo, etc., Erika, Ext. 6121 or 822-5636.

Harthex fireplace insert, woodburning; dark wood buffet and hutch, dinner table with dark walnut look, arborite top, all in excellent condition, 822-7262.

Baby stroller with blue padded fabric cover; office room divider, 5' x 5', beige fabric on free-standing metal frame; card tables, older style; portable camping toilet (ideal as potty trainer); oriental area rugs, 4' x 6', burgundy tones; wall hanging of *The Last Supper* behind glass.

1977 Dodge Delta Motorhome, "C" body, 440 engine, 60,000 miles, sleeps six, air-conditioned cab and camper, furnace, three-piece bath, AM/FM cassette player, Cindy, Ext. 8308 or 821-9227 evenings.

Two men's 10-speed bicycles, 826-3121 days or 763-3401 evenings.

1994 five-speed Toyota Tercel DX, two doors, sunroof, 60/90 stereo, 85,000 km, certified, original owner, Lalit, Ext. 3696 or 823-9782.

Automatic car starter, bought in December '96, Toni, Ext. 3343 or 763-6254 after 5 p.m.

WANTED

Used VW Cabrio in good condition, Ext. 3438 or 763-7430

Furnished house or apartment in Guelph or Guelph area for visiting professor from Jan. 1 to May 31, 1998, dates somewhat flexible, Ext. 3262 or 836-0277.

House in or near Guelph for visiting professor and family from Scotland from the end of February to late May 1998, would consider exchanging their house near Stirling (25 miles from Edinburgh), Ext. 4800 or mike@envsci.uoguelph.ca.

Snowboard, Keith, 821-9227 evenings.

Used flute in good condition, Mildred, Ext. 2374.

FOR RENT

Clean, bright one-bedroom apartment downtown, laundry, parking, air, central vac, microwave, \$663 a month plus hydro, 836-9721 days, 836-7484 evenings.

Pleasant room in country home on horse farm five miles north of Guelph, share kitchen and bath, non-smoker, \$300 a month, 836-2796.

Furnished two-bedroom apartment beside Stone Road Mall to share with student, laundry facilities, Lynn, 836-4133.

Three-bedroom raised bungalow, 2.6 acres in country three km from Guelph, new gas furnace and windows, garage, huge kitchen with

wrap-around deck, above-ground pool, baseball diamond, wooden play centre, sand volleyball court, Kelly or Donnie, 822-3248.

Furnished two-bedroom condo in historical building in centre of Guelph, everything supplied, rent by the day, week or month, reasonable rates, Carol, 823-1857 or 837-7537.

Upper half of split-level house, furnished, two bedrooms, laundry, parking, on bus route, available Jan. 10 for three months, non-smokers, \$800 a month inclusive, 821-6432.

Large bedroom for mature adult, 10-minute walk to campus, near bus route, laundry, available now, minimum six-month lease, \$300 a month plus utilities, David, 837-1141 or eliott@uoguelph.ca.

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Housesitters - mature couple, part-time students registered for the winter semester, we love pets, references available, 824-6517.

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Human Resources Launches New Tracking System for Benefits

IF YOU THINK the deduction side of your next cheque stub or direct-deposit advice looks a little different, you're right. Starting with the Nov. 13 pay, Human Resources will be using a new system to track the group benefits of extended health care, dental, long-term disability and life insurance.

"We will now be using a module within our existing HR/payroll system, rather than a stand-alone system that requires duplicate data entry," says Lillian Wilson, senior compensation co-ordinator. This change will allow for more accurate employee information, an improved billing system with the insurance carriers and better reporting capabilities, she says.

"Many people have been involved in the project since its inception," notes Wilson, "and the timely implementation was due to the efforts of both Human Resources and University Systems staff."

Until the end of 1997, the old deduction information will still show on the pay advice, along with a new line that will include deductions taken in November and December. Starting with the first pay of 1998, only one line will appear for each benefit.

If you have any questions about your benefits, call Ext. 3374.

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ARBORETUM

Yes, *We Have No Bananas*, a children's show featuring monkey folk tales from around the world, runs Nov. 18 at 6:30 p.m. at the Arboretum Centre. Tickets are \$5. Call Ext. 2113.

Arboretum director Prof. Alan Watson presents "The Nature of Christmas," a program that explores the relationships between nature and the Christmas season, Nov. 26 at 7 p.m. Cost is \$11. Register by Nov. 19 at Ext. 4110.

Create your own natural winter decorations at a workshop for adults offered Dec. 3 or 4 at 7 p.m. Instructors are Chris Irvine of Country Silks and Arboretum naturalist Donna MacWilliam. Fee is \$32. Register by Nov. 19 at Ext. 4110.

Theatre in the Trees presents *Ivan Cemetery Club*, a comedy by Lvan Menchell, beginning Nov. 8. Buffet opens at 6:30 p.m.; showtime is 8 p.m. Tickets are \$45. Call Ext. 4110 to reserve.

ART CENTRE

Two new exhibitions open at the Macdonald Stewart Art Centre in November. "Nature Machine," which explores aspects of various natural systems opens Nov. 13 and continues to Jan. 4. "Paterson Ewen: Paintings from the '90s" runs Nov. 27 to Jan. 11. Prof. Ron Shuebrook, Fine Art and Music, will give a gallery talk on Ewen's work Nov. 27 at 7:15 p.m., to be followed by an opening reception at 8 p.m.

A display of 35 frames transformed by prominent artists into works of art continues until Nov. 22, when the frames will be auctioned during a gala that begins at 7:30 p.m. Tickets for the auction party are \$25 and are available at the art centre.

CLUBS

The U of G Squash Club invites anyone interested in supporting the University's three teams entered in the Squash Ontario Western Region league to come watch them play Mondays and Thursdays from 7 to 9:30 p.m. in the Athletics Centre.

COMMUNITY EVENTS

The Rotary Club of Guelph presents a monthly series of travel and adventure films Wednesdays at 8 p.m. at E.L. Fox Auditorium. Next up is a look at the intracoastal waterway from Virginia to Key West, Fla., with Ken Creed. Tickets are \$5 at the door.

The Elora Festival presents the Moscow Boys Choir Nov. 15 at 8 p.m. at the Church of Our Lady in Guelph. Tickets are \$22 in advance, \$25 at the door, and are available at the Carden Street Music Shop or by calling 846-0331.

Members of the Guelph Guild of Handweavers and Spinners will hold their annual sale and demonstrate their crafts Nov. 8 and 9 from 10 a.m. to 5 p.m. at the Wellington County Museum. In conjunction with the sale, the museum is featuring two exhibits related to textiles — "Strait-

Laced," a display of undergarments, and "Fashions from the '50s," an exhibit of clothing accessories. Admission is \$1.

The Bookshelf's fall reading series continues with Peter Gzowski Nov. 6 at 7 p.m. at Chalmers United Church. Tickets are \$2. Proceeds go to Action Read. Bill Richardson reads Nov. 16 at 4 p.m. in the Bookshelf Cinema.

The next meeting of the Royal City Calligraphy Guild is Nov. 11 at 7:30 p.m. at the Evergreen Centre. The session will focus on envelope design ideas. For more information, call Marilyn Swaby at 823-8098.

The Guelph chapter of PSI, the Association for Office Professionals, meets Nov. 12 at 6 p.m. at Riverslea on Arthur Street. After-dinner speaker is Dave Gibbons, who will discuss "Car Maintenance for Women." For more information, call 855-4464.

The Royal City Quilters Guild will meet Nov. 11 at 7:30 p.m. at Westwood United Church. For more information, call 824-1342.

The Burlington Civic Choral performs the Christmas portion of Handel's *Messiah* and the *Magnificat* of J.S. Bach Nov. 16 at 4 p.m. at Westwood United Church. Admission is free with a donation of a non-perishable food or a child's toy.

The Guelph Civic Museum presents an exhibit of Christmas seals from 1947 to 1997 until Nov. 28. From Nov. 14 to Jan. 18, the museum offers "Stories of the Holiday Season," an exhibit and program featuring traditional seasonal tales from many cultures. On Nov. 22, Guelph Museums and the Downtown Board of Management are sponsoring a tour of six of Guelph's historical places of worship along the Speed River from 9:15 a.m. to 4 p.m. Tickets are \$12 general, \$10 for members and \$5 for children, and must be purchased by Nov. 19. For more information, call 836-1221.

McCrae House marks Remembrance Week with its traditional broadcast of messages of peace to ham radio operators around the world. Broadcasts continue daily until Nov. 11, running weekdays from 10 a.m. to 5 p.m. and Saturday and Sunday from 1 to 5 p.m. McCrae House recently reopened with new permanent and temporary exhibits and will hold an official opening reception Nov. 30 on the 125th anniversary of John McCrae's birth.

The Arkell Schoolhouse Gallery presents Eduard Minevich on violin, Pauline Minevich on clarinet and Leslie De'Ath on piano Nov. 8 at 8 p.m. Tickets are \$15. To reserve, call 763-7528.

The Guelph Chamber of Commerce will hold its annual dinner dance Nov. 8 from 6 p.m. at the River Run Centre. Tickets are \$75 per person. For information and to reserve seats, call 822-8081.

The Elora Festival is looking for donations of used books, records, puzzles, games and paper ephemera for its annual book sale May 2 and 3, 1998. Items can be dropped off at the Elora Festival Office or picked up by calling 846-2677, 846-5497 or 846-0331.

CONCERTS

The School of Fine Art and Music's noon-hour concert series continues Nov. 6 with pianist Tom Plaunt. Upcoming concerts feature student soloists Nov. 13 and the U of G Concert Winds under the direction of John Goddard Nov. 20. Concerts begin at 12:10 p.m. in MacKinnon 107. Admission is free.

The U of G Orchestra will perform Nov. 9 at 3 p.m. at the River Run Centre. Conducted by Henry Janzen, the orchestra will perform Beethoven's *Triple Concerto Opus 56 for Violin, Cello and Piano*, as well as works by Rossini, Vaughan Williams and Sibelius. Tickets are \$15 general, \$8 for students and seniors, and are available from the River Run box office at 763-3000 or the School of Fine Art and Music in Zavitz 204, Ext. 3988.

The School of Fine Art and Music marks the 30th anniversary of its Thursdays at Noon series with a commemorative concert featuring baritone Kevin McMillan and pianist Andrea Battista Nov. 7 at 8 p.m. in War Memorial Hall. Tickets are \$10 and \$6.

The U of G Jazz Ensemble, conducted by Prof. Howard Spring, performs Nov. 20 at 8 p.m. at the University Club. Admission is \$2 at the door.

DISCUSSION

The Central Student Association and CFRU 93.3 FM are hosting a community round table on casinos Nov. 7 on CFRU's *Noon Show*. Members of the city's public liaison committee on casinos will be debating live to air. The public is invited to ask questions by calling 837-CFRU.

The Our World series continues Nov. 11 with a presentation on "The Farm Household in the Russian Economic Transition" by sociologist Valeri Patsiorkovski of the Institute for Socioeconomic Studies of Population at the Russian Academy of Sciences. The talk begins at noon in UC 333. On Nov. 18, the topic is "Touch the Dragon: Perspectives on Development in Thailand," featuring five U of G students who participated in development projects in Thailand last summer. This session begins at noon in UC 429.

The School of Literatures and Performance Studies in English will host "Cultures and Diaspora: African-Canadian Writing and Performance" Nov. 14 from 1:30 to 4:30 p.m. at the Inner Stage. This series of presentations and round-table discussions will feature readings by Austin Clarke, Djanet Sears, Lawrence Hill, Rinaldo Walcott and Cameron Bailey.

LECTURES

Eddie Shack and Ross Brewitt, co-authors of Shack's biography, *Clear the Track*, will speak Nov. 9 at 1 p.m. in Peter Clark Hall as part of the free lecture and author series sponsored by the University Centre and Central Student Association. The series continues Nov. 11 with John Ibbittson, author of *Promised Land*, looking "Inside the Mike Harris Revolution" and Nov. 13 with Christopher Moore, author of 1987: *How the*

Fathers Made a Deal, discussing "The Fathers of Confederation." Both talks begin at 7 p.m. in UC 103. On Nov. 17 at 7 p.m. in Peter Clark Hall, the speaker is Diane Francis, who wrote *Bre-X: The Inside Story*.

Third Age Learning — Guelph wraps up its fall lecture series for retired people Nov. 12 with Prof. Ann Gibbins, chair of the Department of Animal and Poultry Science, focusing on "Designer Genes: Made to Measure" at 10 a.m. and Prof. Chandler Kirwin, Fine Art and Music, examining "Nature and Art" at 1:30 p.m. Lectures are at the Arboretum Centre.

The School of Landscape Architecture presents Prof. David Rapport, who holds the Tri-Council Eco-Research Chair in Ecosystem Health, discussing "Ecosystem Health: The Science and Practice" Nov. 14 at 3 p.m. in Landscape Architecture 125.

MEETING

The Canadian Wildflower Society meets Nov. 12 at 7:30 p.m. at the Arboretum Centre. Guest speaker is Harold Lee, senior ecologist with the Ministry of Natural Resources, who will discuss the ecological and classification system the ministry is developing. Everyone is welcome.

NOTICES

The Animal Science and Nutrition Building will be unlocked at 7:45 a.m. and locked at 4:45 p.m. on weekdays and locked all weekend. Anyone wishing to make submissions to Computer Operations outside building hours can call Ext. 3734 to arrange entrance.

CFRU-FM is staging its ninth annual fund-raising drive until Nov. 13. To make a pledge, call 837-CFRU, 837-BEST or 837-2378. On Nov. 14, CFRU hosts a Latin American dance from 9 p.m. in the Grad Lounge. Admission is \$5.

SEMINARS

The Department of Human Biology and Nutritional Sciences presents graduate student Karen Iles explaining "The Effect of Genetic and Nutritional Manipulations of CuZnSOD on the Susceptibility to Alloxan-Induced Diabetes in Transgenic and Non-Transgenic Mice" Nov. 10 at 1 p.m. in Animal Science/Nutrition 336.

McGill University physicist Cliff Burgess will speak at the next Department of Physics seminar Nov. 11. His topic is "Fighting the Split Brain: Why Renormalization Is a Good Thing." On Nov. 18, Peter Norton of the University of Western Ontario explains "Interfacial Force Microscopy: A New Scanning Probe Technique for Imaging and Quantitative Measurement of Interfacial Forces and Nanomechanical Properties." The talks begin at 4 p.m. in MacNaughton 113.

The Department of Chemistry and Biochemistry's seminar series continues Nov. 11 with John Aitchison of the University of Alberta discussing "Nuclear Transport: Karyopherins and Kissing Cousins" at 4 p.m. in MacNaughton 222.

The Axelrod Institute of Ichthy-

ology's "Loaves and Fishes" seminar series features graduate student David Gislason discussing "Genotypic and Phenotypic Variation in Arctic Char" Nov. 11 and Prof. Rich Moccia, Animal and Poultry Science, on "Arctic Char Aquaculture: Opportunities or Hype?" Nov. 18. The seminars begin at 12:30 p.m. in Axelrod 168.

The Plant Biology Council seminar series continues Nov. 12 with Joe Shorthouse of Laurentian University examining "Cynipid Gall Wasps of Canada's Wild Roses: Manipulators of Host Anatomy and Physiology" and Nov. 19 with Dan Rinker of HRIIO Vineland explaining "Strategies Against *Trichoderma harzianum* (Type 4) in the Mushroom Industry." The seminars begin at 3:45 p.m. in Axelrod 259.

The Department of Economics presents Haoming Liu of the University of Western Ontario speaking on "Labor Quality and the Cyclical of Real Wages" Nov. 7 and Daniel Quan of the University of Texas, Austin, on "Inferring Asset Values for Sealed Bids" Nov. 14. The seminars run from 3:30 to 5 p.m. in MacKinnon 238.

The Department of Biomedical Sciences sponsors a graduate student seminar series Fridays at 12:30 p.m. in OVC 1642. Next up are Kristen Young discussing "Reproductive Endocrinology of the Black-Footed Ferret" Nov. 7 and Linda Franchetto on "Repeatability of Hoof Strain Measurements in Horses" Nov. 21.

The Department of Psychology presents Charlene Senn of the University of Windsor discussing "Two Approaches to the Study of Women and Pornography" Nov. 12 at 4 p.m. in MacKinnon 223.

THEATRE

The Campus Ministry and University Catholic Community are sponsoring *Points of Arrival: A Jean Donovan Journey*, a new play based on the life of a North American church woman who was killed in El Salvador in 1980, Nov. 19 at 7:30 p.m. at the Inner Stage. Tickets are \$10 general, \$5 for students and unwaged. For more details, call Ext. 2391.

WORKSHOP

Teaching Support Services is offering a workshop on "Minimizing Academic Misconduct in University Courses" Nov. 19 from 11:30 a.m. to 1 p.m. in the group viewing room on Level 3 of the McLaughlin Library. Prof. Donna Pennee, English, will lead the workshop, which will be conducted primarily as a conversation about the contexts of and possible solutions to academic misconduct. To register, call Helen Martin at Ext. 2973 or send e-mail to hmartin@iss.uoguelph.ca.

WORSHIP

Roman Catholic Mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100.

A spirituality circle for women meets Fridays at 11:30 a.m. in UC 533.

The Ecumenical Campus Ministry and Harcourt United Church offer non-denominational Sunday services weekly at 7 p.m. at Harcourt Church, 87 Dean Ave.



GUELPH

VOL. 41, NO. 22

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IN THIS ISSUE

- 2 COMPUTER ACCESS** for all U of G students is the goal of this year's Campus Fund.
- 3 FACULTY HONOR** seven of their peers for excellence in teaching and academic librarianship.
- 4 MUSIC HAS** been striking a chord on campus for more than 30 years.
- 4 OVC STUDENT Noel Harrington** sports the title of top Canadian triathlete.
- 6 STUDIES SHOW** that eating more pesticide-treated fruits and vegetables doesn't raise the risk of developing cancer.

Registrarial Duties Move

Change reflects
new responsibilities
for VP (academic)

Chuck Cunningham, director of enrolment management and registrarial services, has assumed the title and duties of registrar.

Provost and vice-president (academic) Iain Campbell says the transfer of responsibilities to Cunningham from Prof. Constance Rooke, associate vice-president (academic), reflects new responsibilities that Rooke is taking on, as well as the successful consolidation of the Office of Registrarial Services since the major reorganization last year of the Registrar's Office and Office of Graduate Studies.

"By this means, the University will effectively return to the standard situation in which the Office of Registrarial Services is administered by a registrar who bears long-term responsibility for the institutional memory in that area," Campbell says.

In her new responsibilities, Rooke will work with president Mordechai Rozanski and John Mabley, vice-president (development and public affairs), on planning and carrying out a forthcoming University campaign and will help the colleges of Arts, Social Science and Family and Consumer Studies develop new sources of research funding. Dean of graduate studies Alastair Summerlee, who has been chairing the Enrolment Management Committee, will continue to hold this responsibility, with increased emphasis in the graduate area. Cunningham will report to Summerlee.



HAIR TODAY GONE TOMORROW

Dozens of people bared their scalps last week in the Central Student Association's (CSA) annual head shaving for the United Way. Volunteers on the cutting edge included, from left, Brian Sullivan, associate vice-president (student affairs); Mitch MacDonald, CSA activities commissioner; and Prof. Alastair Summerlee, dean of graduate studies. Welding the scissors were staff from Tangles. The head shaving raised more than \$3,800 for the campus United Way appeal, which has achieved more than \$14,000 towards its \$186,400 goal.

PHOTOS BY MARTIN SCHWALBE

Two Cool!

Guelph jumps to second place in Maclean's magazine's annual rankings of Canadian universities

Who says the media never carry any "good news" stories? Certainly not *Maclean's* magazine readers on campus, who opened their Nov. 17 issue to discover the weekly news magazine had named U of G the second-best comprehensive university in Canada.

After years of keeping to a steady fourth-place ranking, Guelph jumped up two full spots in the nationwide comprehensive category, finishing only behind Simon Fraser University. To do so, U of G improved on 1996 results in 11 of the 19 indicators on which *Maclean's* bases its rankings. Guelph ranked in the top three in six of the 21 indicators and in all four of the student quality measures. Survey results showed significant improvements over last year in the proportion of students who graduate, the proportion of faculty holding PhDs and the quality of library services. In a cross-country survey by *Maclean's* of 3,500 high school guidance counsellors, academic and industry leaders, U of G placed second in terms of its overall reputation.

President Mordechai Rozanski says he's delighted with the results and "very proud that the University of Guelph was so highly regarded by people across Canada in their assessment of

reputation and quality."

He cites three major reasons for Guelph's improvement. "First, the talent and quality of our people — faculty, staff, administrators, students and alumni. Second, an intensive planning process. Third, some very wise decisions being made throughout the institution — by managers, directors, chairs, deans and vice-presidents — in the allocation of resources to preserve and enhance quality at this university."

Although pleased that Guelph is the top Ontario institution in the comprehensive category, Rozanski questions how Ontario universities can continue to sustain quality teaching and research.

"Ontario ranks 10th out of 10 provinces in terms of per-capita funding of postsecondary education," he says, "and clearly that isn't good enough. Financial constraints have meant faculty and staff losses, restructuring, fewer opportunities for research, threats to accessibility and increased student debt load. Everyone on campus has been forced to pitch in to carry a heavier load — faculty, administration and students. But it should be obvious that you can't carry on under those circumstances for too long without suffering a dramatic fall-off in quality.

That's something our society and the knowledge-based economy simply cannot accept if we expect to succeed in the future."

This view is shared by *Maclean's* assistant managing editor Ann Dowsett Johnston, who wrote: "The battle to preserve excellence in Canadian universities has never been more critical, the stakes never higher. Changes to funding and to student assistance must be won, and the community at large must lend its weight to the fight ahead."

Rozanski says the *Maclean's* survey provides a much-needed glimpse of universities in this country and the important role they play in society.

"We are very pleased to form part of such a national forum," he says, "but a summary of numbers or raw statistical data does not really tell Canada what we at Guelph are all about. U of G is distinct within its category and unique by any measure — a residential university with outstanding programs, innovative curricula, first-class research activities and dedicated alumni, set on a wonderful, friendly campus. I'm gratified that others are recognizing our distinctiveness and dedication to excellence."

BY ALEXANDER WOOLEY

New course starting winter '98
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Technology Changes, but Need Remains

Computers have become a powerful learning tool and a great need
as the campus struggles to provide access for all students



The way Guelph faculty use computer technology to aid teaching has changed dramatically since OVC dean Alan Meek, in the photo above, instructed this 1981 class in veterinary microbiology and immunology. What hasn't changed is the need to provide more computer workstations for students.

Computer-based learning is much more interactive today than it was in 1981 and has become an integral part of the curriculum in most academic departments, in the use of library resources and in the pursuit of research. And with 12,000 undergraduates all seeking access, the need to expand multimedia facilities on campus is growing at Internet speeds.

In 1996, the Alma Mater Fund Advisory Council took a major step towards meeting this challenge by

directing \$120,000 to the installation of 70 new state-of-the-art workstations in the library. This year, the goal is to match that figure in an effort to help more Guelph students enrich their computer experience and gain the capabilities they need to be effective learners and competitive professionals.

The six volunteers on the 1997 Campus Fund committee say they joined forces because they recognize that students need access to new technologies and because they think it's important for faculty and staff to support institutional priorities.

"Support for cutting-edge computing labs is critical," says Prof. Bruce Holub, Human Biology and Nutritional Sciences. "We're investing in the future of our children," adds Sylvia Wilms of Hospitality Services.

Prof. Rick Yada, acting chair of the Department of Food Science, says faculty and staff giving can help maintain quality in teaching and research programs. Prof. Jim Shute, director of the Centre for International Programs, and registrar Chuck Cunningham say Campus Fund success tells prospective students that U of G is a caring and supportive environment.

"We're all a part of the Guelph learning community," says Prof. John Walsh, HAFSA. "We have an important role to play in the University's fund-raising effort."

Gifts to the Campus Fund can be made by payroll deduction, cheque or credit card. For more information, visit the U of G Web site at www.uoguelph.ca or call Ext. 6183.

What to Do in Event of a Postal Strike

Fax, e-mail, couriers, U.S. post office box

offer alternatives if nationwide strike occurs

Administrative offices across campus have been gearing up for a possible nationwide postal strike.

At Mail Services, a number of precautionary measures have been taken to minimize the adverse effects of any strike, says supervisor Kevin Ecott. U of G already possesses a U.S. post office box, which will enable the University to distribute mail in the United States and overseas. Mail will be forwarded to this mailbox by courier at least twice a week or more often if volume dictates, he says.

In the event of a strike, collection and distribution of on-campus and IUTS mail will operate as usual, but outbound domestic mail will be halted. It must be held by the originating department until the strike is over and postal services resume or until further notice,

Ecott says.

As an alternative, he encourages members of the University community to use faxes, electronic mail or U of G's current commercial courier services. For information about courier services, visit the Purchasing Services Web site at <http://www.fin.uoguelph.ca> under the "Traffic (Courier)" section or call Mary Mollison at Ext. 2541.

Outbound mail for the United States and overseas will be picked up with the internal campus mail and given to TNT Mailfast, Guelph's current re-mail service provider, says Ecott. This is no change to the current procedure for mail bound outside of Canada.

To receive mail from the United States and overseas during a strike, members of the University

Continued on page 7

@GUELPH

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UNIVERSITY
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REVIEW UNDER WAY

A committee has been established to review the associate dean of environmental sciences, Prof. Michael Moss, who has completed a five-year term and has indicated his willingness to serve another term. Chaired by CPES dean Bob McCrindle, the committee consists of undergraduate student Natalie Ambler; Prof. Ward Chesworth, Land Resource Science; Prof. Fred Dahms, Geography; Prof. Cheryl FitzGibbon, Land Resource Science/Landscape Architecture; Prof. Isobel Heathcote, Engineering/Environmental Sciences; and Prof. Patrick Woo, Zoology. The review committee is currently seeking input from the University community. Send written comments to any member of the committee by Dec. 3.

U OF G JOINS THE PARADE

For the first time in many years, U of G will have a float in the city's annual Christmas parade Nov. 23. The theme of the float is "The Spirit of Guelph." The parade starts at London Road at 1:30 p.m., follows Woolwich to Norfolk Street, Quebec Street and St. George's Square, then heads south on Wyndham to Fountain Street. U of G's float is a collaborative effort involving students from College Royal and staff from Physical Resources, Hospitality Services, Alumni Affairs and Communications and Public Affairs.

STAKING OUT NEW 'TERF' IN THE GLOBAL VILLAGE

U of G, the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), the North Wellington Advisory Group and Wellington FreeSpace will host an Electronic Rural Fair (TERF) Nov. 29 and 30 at OMAFRA headquarters, 1 Stone Rd. The fair will provide a forum for members of rural Ontario communities to meet with businesses and electronic service suppliers, educators and trainers, to learn about emerging communication technologies. To register, call 826-7540 or send e-mail to info@ruralfair.com.

VOLUNTEER READERS NEEDED TO TAPE TEXT

Volunteers are needed to read course materials on to tape for students with visual and learning disabilities. The Centre for Students with Disabilities and U of G Library operate the taped-text service to provide course-related materials in alternative format for students who need them.

Volunteers are needed mainly during the fall and winter semesters, but some summer hours are required. Reading schedules are tailored to meet individual needs, and volunteers do the taping at home. Equipment can be supplied by the University if necessary. For more information, call Trudy Smit-Quosai at Ext. 8310 or Carol Perry at Ext. 2312, or send e-mail to trudys@uoguelph.ca or carolp@uoguelph.ca.

UGFA Honors Seven

Awards recognize campus contributions to teaching and academic librarianship



Earning kudos this year from the U of G Faculty Association are, sitting from left, Bernard Katz, Prof. Donna Pennee and Prof. Margaret Priest. Standing are Profs. Fred Evers, Alan King and Jean Turner. Absent from photo are Prof. Nick Westwood and Sharon Taylor.

PHOTO BY DEAN PALMER

The U of G Faculty Association recently honored seven faculty and librarians for their contributions to teaching and academic librarianship at U of G.

The Distinguished Professor Award in the College of Physical and Engineering Science went to Prof. Nick Westwood, Chemistry and Biochemistry. The Distinguished Professor Award in FACS was presented to Prof. Jean Turner, Family Studies, who

also received her college's teaching award for excellence last year. OVC's Distinguished Professor is Prof. Alan King, Biomedical Sciences. Prof. Fred Evers, Sociology and Anthropology, was named Distinguished Professor in the College of Social Science.

Two awards were presented in the College of Arts — the Distinguished Professor Award to English professor Donna Pennee and a Special Merit Award to fine art professor Margaret

Priest. Both were also recipients of 1996 teaching awards from the Ontario Confederation of University Faculty Associations.

Two awards were also presented in the U of G Library — the Academic Librarianship Award to Bernard Katz, head of special collections and development, and a Special Merit Award to librarian Sharon Taylor, who has also been honored for teaching by Seneca College.

Study Examines Impact of Tuition Hikes on Accessibility

Subcommittee wants to hear about existing data on U of G students

A Senate Committee on University Planning (SCUP) subcommittee looking at the impact of tuition increases on accessibility is interested in any research involving U of G students in the past five years.

Faculty who have used Guelph students as participants in research that included measures such as income and social background, stress, nutrition, coping mechanisms and academic performance are asked to contact members of the subcommittee on accessibility.

Struck this spring, the subcommittee consists of Prof. Sid Gilbert and graduate student Linda Quirk, Sociology and Anthropology; Prof. Ian McMillan, Animal and Poultry

Science; and Judy Paisley, a PhD student in applied human nutrition. The subcommittee's mandate is to identify existing data that could be used to respond to Senate motions to:

- identify and measure appropriate indicators to determine the impact of tuition increases on enrolled undergraduate and graduate students;
- collect data to determine whether tuition increases have an impact on accessibility for potential students from varied socioeconomic backgrounds; and
- report findings to Senate and the Enrolment Management Committee annually.

"Our job is to see whether the

existing data at Guelph will answer the questions and to prepare a methodology for the research design," says Paisley.

In preparing its report, the subcommittee will examine existing surveys on incoming students, quality of life and graduate students. It will also consult with resource people from Institutional Analysis and Planning, Registrarial Services and Student Affairs, as well as faculty, students and staff with expertise in the area.

The subcommittee is looking at four target groups: potential undergraduate and graduate students and existing graduate and undergraduate students. The subcommittee hopes to report to SCUP in December, says Paisley.

EOPLE

GALBRAITH NAMED TO ORDER OF CANADA

World-renowned Harvard economist John Kenneth Galbraith, who graduated from OAC with a diploma in 1928 and a BSA in 1931, received an Order of Canada Nov. 5 in Ottawa. Cited as "one of the great liberal thinkers of our age," he was commended for his contributions to the discussion of western economics and politics for the last 50 years and his talent for communicating with the public. President Mordechai Rozanski and OAC dean Rob McLaughlin attended the investiture. Galbraith received an honorary degree from Guelph in 1965.

VISITING SCHOLAR AT HARVARD

Prof. Theresa Lee, Political Studies, is a visiting scholar at the Fairbank Centre for East Asian Research at Harvard University for 1997/98. Her work is focusing on "Political Discourse and the Crisis of Identity."

BOOK EXPLORES INDIA'S ENVIRONMENTAL CHALLENGES

Prof. O.P. Dwivedi, Political Science, has published a new book on *India's Environmental Policies, Programs and Stewardship*. It introduces readers to the environmental policy-making and management process in India by examining various dimensions of environmental challenges faced by the nation. Dwivedi, who has been monitoring developments and changes in India's pollution and conservation policies for almost 30 years, was senior adviser to the Government of India's Ministry of Environment and Forests in 1984/85. He is the author of more than 20 books.

PROF JOINS EDITORIAL BOARD

Prof. Neil MacKinnon, Sociology and Anthropology, has been appointed to the editorial board of *Social Psychology Quarterly*. He has also been appointed an adjunct graduate faculty member in the Department of Sociology at the University of Waterloo.

LAW STUDENTS ADDRESSED

Dalhousie Law School invited Prof. John McMurtry, Philosophy, to present its law hour lecture Oct. 9. His topic was "Is the University an Agent of a War-Crime State? The Case of the Indonesia Project."

OAC STUDENTS MEET THE CHALLENGE

OAC students captured some top spots at the annual Ag Challenge hosted by the University of Saskatchewan this summer for undergraduates from Canada and the northern United States. Eric Barkey and Kristin Ego placed first in the debate. Barkey, Kevin Ego, Laura Green and Glen Vsetula captured first place in the team challenge on the topic "Solving World Hunger." Kristin Ego placed second in the presentation event. The award for top overall aggregate team went to OAC.

AND THE MUSIC PLAYS ON...

"The last 30 years of noon concerts and other musical events on campus give us much to celebrate"

BY MARY CYR

Aniversaries usually recall a happy or momentous event in the past or a special personal achievement. They give us an opportunity to honor the contributions of artists, writers, musicians, politicians and many other historical figures whose outstanding achievements have made a difference in our lives.

In recent years, it has also become fashionable to mount commemorative exhibitions or musical events throughout the year in honor of important occasions. This year, for example, marks the 200th anniversary of Franz Schubert's birth, and a recent piano recital on campus by Tom Plaunt of McGill University offered a tribute to Schubert's extraordinary works for the piano.

In no century before us has the public revered the music of earlier centuries to the same extent that we do today. When the 18th-century writer Oliver Goldsmith spoke fondly of the past, he remarked: "I love everything that's old: old friends, old times, old manners, old books, old wine." He did not mention *old music*, probably because appreciating music of the past is largely a phenomenon of the 20th century. It is a thoroughly modern idea, in other words.

Although the music program at U of G can't claim to be "old" — a division of music was formed in 1965 and a department wasn't formally created until 1984 — it is marking some special anniversaries of its own this year.

The School of Fine Art and Music is celebrating the importance of musical performance at Guelph with the 30th anniversary of the Thursdays at Noon concert series. This weekly series was inaugurated in 1967, the same year the MacKinnon Building opened. Ralph Kidd, the Music Department's first chair, launched the series with his wife, Edith, the University's first concert manager. Their goal was to bring internationally acclaimed musicians to campus.

The centrepiece of the 30th-anniversary celebration of music on campus was a recital earlier this month by acclaimed Canadian baritone Kevin McMillan. A former Guelph student, he later studied in Britain and at the Juilliard School of Music. In 1987, he won the National Vocal Competition at the Guelph Spring Festival and

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MUSIC"

also performed at the opening concert when the Thursdays at Noon series celebrated its 20th anniversary. It was an honor to have him return this year to help us celebrate another decade of musical on campus.

Tradition is an important part of celebrating music at Guelph, but there have also been some recent innovations in our programming. The Thursdays at Noon concerts have always provided an opportunity for audiences to hear visiting artists, but more recently, performances by students and Guelph faculty have been added. Two popular events are Student Soloists' Day and a concert each semester by Guelph alumni.



the music program. Ten years ago, an unusual collection of rare musical instruments donated by Barbara Coleman was moved from the U of G Library to the MacKinnon Building, where it was put on permanent display in specially built glass cases. The collection contains 28 instruments spanning the 18th to 20th centuries. Among these are some fine rare examples, such as an 18th-century French hurdy-gurdy, an Indonesian anklung, a Swedish nyckelharpa and an African mbira.

Some of the instruments are Canadian heirlooms that Barbara Coleman found in antique shops in the Baden area; others were found during her worldwide travels. She likes to refer to them as instruments that could have been brought to this country by immigrants. A small European-made reed organ, for example, from St. Peter's Church in Kitchener is thought to have been the first organ in the area.

Four senior undergraduate music students are currently researching each of the instruments and producing a descriptive catalogue of the Coleman Collection of Musical Instruments, complete with photographs of each instrument. This will be issued in printed format and published on the World Wide Web.

The last 30 years of noon concerts and other musical events on campus give us much to celebrate. During that period, musical ensembles and performances have become more diverse and have drawn more of the campus community as members. The ensembles are the product of dedicated faculty, students, staff and community members who come together for the sheer joy of making music. We look forward to many more anniversaries to recognize this extraordinary gift to the campus.

Prof. Mary Cyr is director of the School of Fine Art and Music and conductor of U of G's Early Music Ensemble.

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WILL OF IRON PRESSES TO VICTORY

Vet student becomes Canada's premier triathlete with win at Ironman competition

BY ALEXANDER WOOLEY

OVC is home to a national sporting champion. With his win in August at the Ironman Canada competition in Penticton, B.C., first-year veterinary student Noel Harrington became the country's premier triathlete. He beat out 1,700 other competitors to claim the title. The win also came with a bonus — a \$12,000 first prize.

To Harrington, it was a reward for three years of laps run, lengths swum and hills cycled — "the culmination of a lot of work, basically."

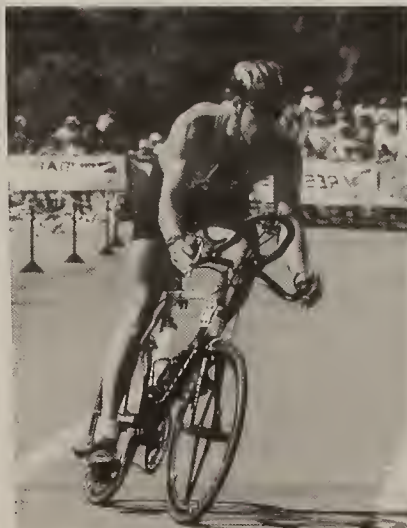
By any stretch, he is a world-class athlete — one of only 150 triathletes in the sport's top "Pro" class. The triathlon is a gruelling, stamina-testing effort comprising a 3.8-kilometre swim in open water, a 180-km cycling segment across undulating countryside and a 42.2-km marathon on foot. Events are run consecutively, uninterrupted, in one day.

Harrington's best time for the event is eight hours, 37 minutes. The world record is seven hours, 51 minutes.

Although the thrill of the competition and the camaraderie among participants is what drives the athlete in Noel Harrington, the student in him also benefits from the strict training regimen. "I find it helps in my studies and relieves the stress inherent in a busy academic program," he says.

But not all has gone swimmingly. Victory in B.C. was followed up by disappointment in Kona, Hawaii, last month, where Harrington competed in the Ironman World Championships, the "granddaddy of them all." Facing 1,500 other world-class triathletes, he was forced to withdraw when a severe cold interrupted his plans for a top 10 finish.

He remains philosophical, however. "That's the beauty and sometimes the unfortunate thing about triathlons — on any given day anything can happen. There are a lot of things you can't control, like the weather, how rough the sea is for the swim segment, your bike and your health on that one day."



But for the triathlon, Harrington might never have ended up at U of G. After earning an undergraduate degree from the University of Toronto, he did a master's in physiology at the University of Ottawa and was set to go on to a PhD when, on a calculated whim, he entered the 1994 Ironman World Championship in Hawaii, his first major competition. "I was extremely nervous and just hoping to finish," he says.

He did better than that, finishing 23rd.

Spurred on by this success, he trained full time for two years, from 1994 to 1996, while working as a part-time research technician at a hospital in London, Ont. It was during this period that he reassessed his career plans and decided to go into veterinary medicine.

The win this summer in Penticton was a life goal realized. For now, though, his intense athletic program — training 35 hours a week — is taking a back seat to studies. Where he can, the 28-year-old still tries to squeeze in a workout, "just to maintain a baseline of fitness."

Harrington says he's delighted by the encouragement he's received for his sporting endeavors. "I've gone from bigger to smaller campuses all along, and I really like what I've found at Guelph, both the city and the University. Plus, the school (OVC) has been very accommodating in terms of allowing me to fit some exams around my triathlon commitments and encouraging extracurricular activities in general."

At one time, triathletes toiled in virtual anonymity. Today, things have changed. Harrington's expenses are covered by his sponsors — a shoe company, a sports drink maker, a snack manufacturer and a Toronto bike store. At Kona last month, the athletes were followed by TV crews in boats and helicopters. Harrington says few of his fellow swimmers in the first segment of the competition were worried about the sharks those waters are notorious for because "they were probably scared off a hundred miles by all the noise!"

In both his studies and his training, Harrington adopts a steady, disciplined approach. He figures he has a few more triathlons in him yet.

"That's the advantage of the Ironman competitions. The average age of people in this sport is a little older than others. It's not necessarily best suited to a really young athlete."

Shedding Light on the Lady with the Lamp

More than 40 years of writings offer comprehensive portrait of Florence Nightingale

AU of G-based international project to assemble and edit more than 40 years of Florence Nightingale's prodigious writings will delve into lesser-known aspects of "the lady with the lamp," as well as her famed role as the founder of nursing education.

Interest in Nightingale — a gifted, heroic woman who corresponded with the major intellectuals of the Victorian era — is growing because she was ahead of her time as a public health advocate and because the world needs heroines, says Prof. Lynn McDonald, Sociology and Anthropology, principal investigator of the collaborative project.

"She was working on a public health policy when it didn't exist," says McDonald, "and now it is somewhat threatened again. People see that she's not just a 19th-century figure."

The goal of the project "The Collected Works of Florence Nightingale," which is funded by the Social Sciences and Humanities Research Council, is to establish a comprehensive portrait of Nightingale. It will contain previously unpublished materials, as well as published materials

that are out of print. It will be published electronically and in book format and will include Nightingale's thoughts and correspondences on religion and spiritual life, India, social science and law and philosophy, nursing and medicare.

"Nightingale rose in her era because she was enormously intelligent and absolutely ruthless in her dedication to work," says McDonald. "She was largely revered, although many people didn't like her because she was seen as a troublemaker."

Born in 1820 to a privileged and wealthy English family, Nightingale developed her philosophy of service to humanity from extensive readings and her spiritual beliefs. Largely self-taught in nursing, she obtained a classical education from her father, learning Greek, Latin, Italian, French and German. From an early age, she was influenced by religion, which informed all of her life's reform work — in hospitals, military nursing, public health and preventive medicine, Poor Law reform, the foundation of medicare, the regulation of prostitution and opposition to the Contagious Acts Disease.

"Her faith was the key," says McDonald. "She believed that God created the world and runs it by laws; it is our duty to study those natural laws, then intervene to make changes to better the world."

It was Nightingale's role during the Crimean War that established her as a heroine. In 1854, at the request of Secretary of War Sidney Herbert, she went to Turkey to care for British soldiers. Under her care, their mortality rate fell from 60 to 20 per cent. She established the Nightingale School of Nursing in 1860 and, in 1864, was the first to formulate the basic principles of a public health-care system.

Among those she corresponded with were Indian viceroys and experts, philosopher John Stuart Mill, Queen Victoria, the prime minister and other ministers, leading statisticians and "sanitarians."

"Senior men humbly asked her advice and recognized her personal heroism," says McDonald. "Unpublished correspondence shows how often Nightingale took the initiative; she made the contact, raised the problem, provided the



documentation and proposed solutions."

Other scholars involved in this project are Prof. O.P. Dwivedi, Political Science, Marc Jason Gilbert of North Georgia College, Louise Selanders of Michigan State University and Lois Monteiro of Brown University in Rhode Island. The largest

collection of Nightingale's writings exists in the British Library, with lesser collections spread throughout the world.

The first three volumes of the collection are expected to be published in late 1998 or early 1999 by Wilfrid Laurier University Press.

BY MARGARET BOYD

Increased Intake of Pesticide-Treated Food Not Linked to Higher Cancer Risk

Growing public concern about chemical pesticides and cancer prompts review of scientific knowledge

Increasing consumption of fruits and vegetables that may contain minute pesticide residues does not raise the risk of cancer, according to a report authored by Prof. Len Ritter, executive director of the Canadian Network of Toxicology Centres headquartered at U of G, in the Nov. 15 issue of *Cancer*.

In fact, eating more fruits and vegetables can reduce the risk of cancer and far outweigh potential adverse health effects, if any, that result from their consumption, says Ritter, who prepared the report on behalf of a panel formed by the Canadian Cancer Society and National Cancer Institute of Canada.

"Exposure to pesticides is likely to account for only a very small proportion of human cancers," says

Ritter. "Tobacco use is the single most preventable cause of cancer. Efforts to eliminate tobacco use and enhance dietary habits must remain priorities for cancer control and prevention strategies."

The *Report of a Panel on the Relationship Between Public Exposure to Pesticides and Cancer* was prompted by growing public concern that contact with chemical pesticides may be a major cause of cancer. This perception led the Canadian Cancer Society and National Cancer Institute to form the ad hoc panel in 1994 to review current scientific knowledge about pesticides and cancer.

In its report, the panel concluded that no increase in overall cancer risk has appeared in the past 15 years. A 1981 scientific review of environ-

mental causes of human cancer had determined that about two per cent of total cancer deaths could be linked to all forms of environmental pollution affecting air, water and food. The two leading causes of cancer deaths were found to be tobacco use (30 per cent) and dietary factors (35 per cent).

For its review, the panel examined:

- pesticide exposure, especially in the general population, to determine its possible contribution to cancer development;
- the regulatory framework that has been formed to protect the public from potentially carcinogenic pesticides; and
- potential benefits of pesticides, such as whether their use provides an affordable and abundant supply of fresh fruits and veg-

etables that can reduce overall cancer risk.

The panel found that safety regulations provide the public with a wide margin of safety and that agricultural uses of pesticides play a substantial role in providing affordable and high-quality food products, especially fruits and vegetables.

The panel recommends continued research to assess risk and manage pesticides and to clarify concepts of risk to the general public. It also recommends that ongoing attention be paid to regulatory processes and food inspection procedures, and says there is a need to educate the public about food safety and health issues.

BY MARGARET BOYD

So, You've Invented Something?

Before you start celebrating, pay a visit to the Collaborative Research and Development unit in the Office of Research

It's in the best interests of U of G researchers to inform the Office of Research about new technologies, inventions or intellectual property of any type before they're publicly disclosed, says Jeremy Gawen, director of business development for the Collaborative Research and Development (CRD) unit.

Public disclosure, which includes submitting an abstract or other printed publications, discussions, presentations and funding applications, can significantly limit opportunities for filing patent applications, says Gawen. And this can impinge on opportunities for researchers — who receive a

major part of any income from inventions developed at U of G — and the University.

"Without a patent, it's very difficult to sell a technology," he says. "That's why it's so important for researchers to give us a call if they think there's a chance their technology may be commercially valuable."

CRD is responsible for bridging the gap between the laboratory bench and technology users. It helps commercialize U of G-developed inventions and technology by working with business and industry, arranging user licences and making patent applications when appropriate. Recent U of

G technologies that have been licensed by industry include the application of a physics-based technology for measuring paint thickness, the genetic engineering of wine yeasts and the use of antibodies to sex bovine sperm.

Here's how the commercialization process works.

- First, there is a prediscovery, an informal meeting between the researcher and CRD staff. Based on the details of the research and a preliminary market assessment, the inventors are advised whether their research is advanced enough to move to formal disclosure. If so, a disclosure meeting is scheduled.
- At a disclosure meeting, the inventors and their respective department chairs, CRD staff and a representative of Guelph University Alumni Research and Development (GUARD) — a for-profit technology company with the right of first refusal for any available technology developed at the University (see accompanying story) — meet to determine inventorship and ownership and to discuss the technology's protectability and commercial opportunities at the disclosure meeting.
- If GUARD identifies potential for the technology to generate a spin-off company, it must notify the University within 60 days of dis-

closure. If GUARD does not wish to proceed with the licensing and commercialization of the technology, U of G may pursue patenting and commercializing the technology through other companies.

"From there, it's a matter of knocking on doors of companies," says Gawen. "We look for licensing companies with the reputation — and the production, marketing and distribution skills — to exploit the invention to its fullest commercial potential."

The benefits of commercialization are already being realized by some licensed technologies, including a canola hybrid production system and novel animal vaccines.

Both the University and researchers benefit from royalties from licensing new technologies and commercialization, says Gawen. The economic advantages double for spinoff companies that generate both royalties and equity. Continuing technology transfer can also help technologies stay in Canada and promote graduate employment for the future, he says.

For more information about technology transfer and commercialization opportunities, call Gawen at Ext. 6471.

BY AMINA ALI
OFFICE OF RESEARCH

GUARD Spins Off High-Tech Solutions

Guelph University Alumni Research and Development's first Canadian spinout company — Nanodesign — is poised to change the course of drug design.

Nanodesign is an innovative drug-design company that uses a computerized process to develop new pharmaceuticals safely and cost effectively. The brainchild of Prof. Jonathan Schmidt, Environmental Biology, the new company reflects GUARD's mandate to develop creative research inventions into marketable products and profitable businesses.

"GUARD is the only organization of its kind in Canada," says GUARD president Brian Cox. "It brings together the resources, expertise and funding required to successfully turn bright, worthy ideas into new technology businesses."

He says successful companies like Nanodesign will go a long way in helping to address Canada's imbalance of trade in advanced-technology processes, while providing valuable new employment opportunities for graduate students from diverse academic fields.

The final examination of PhD candidate Chandrani Atapattu, Food Science, is Nov. 27 at 9 a.m. in the lecture hall of the Guelph Food Technology Centre. The thesis is "Milk Protein Functionality in Caramel Processing." The adviser is Prof. Yukio Kakuda.

The final oral examination of John Bruin, a PhD candidate in the Department of Philosophy, is Nov. 28 at 1:30 p.m. in MacKinnon 238. The thesis is "The Intentionality of Questions and Answers: A Phenomenological Analysis of the Questioning Act." The adviser is Prof. Jeff Mitscherling.

The final oral examination of PhD candidate Xuewen Lu, Mathematics and Statistics, is Dec. 1 at 2 p.m. in MacNaughton 222. His thesis is "Semiparametric Regression Models in Survival Analysis." His adviser is Prof. R.S. Singh.

The final oral examination of Piotr Tomicki, an M.Sc. candidate in the Department of Food Science, is Dec. 2 at 1 p.m. in the Pearson Room of the Guelph Food Technology Centre. The thesis is "Thermal Stability and Color Change of Myoglobin in Model Systems." The adviser is Prof. David Stanley.

The final examination of M.Sc. candidate Foo-Lim Yeh, Chemistry and Biochemistry, is Dec. 4 at 10 a.m. in Chemistry & Microbiology 370. The thesis is "Biosynthetic Incorporation of 7-Azatraptophan into the Catalytic Domain of *Pseudomonas aeruginosa* Exotoxin A." The adviser is Prof. Rod Merrill.

The final examination of M.Sc. candidate Karen McCoy, Zoology, is Dec. 9 at 9 a.m. in Axelrod 265A. The thesis is "Transmission Ecology of *Parelaphostrongylus tenuis*: Factors Affecting Prevalence in Gastropod Populations." The adviser is Prof. Tom Nudds.

The final examination of M.Sc. candidate Lauraine Wager, Pathobiology, is Dec. 11. The seminar presentation is at 9 a.m. in OVC 1715, followed by the defence in Pathobiology 101. The thesis is "Phenotypic Relationships Between Immune Response, Disease Occurrence and Production in Periparturient Holstein Dairy Cows." The adviser is Prof. Bonnie Mallard.

Interested members of the University community are invited to attend.

Federal Funding Available for Environmental Sustainability

The Environmental Science and Technology Alliance Canada (ESTAC) invites applications from full-time faculty members at Canadian universities in the areas of environmental quality, industrial catalysis, polymer structure and prop-

erties, and separation science and technology, as well as in an open category.

Funding is normally \$30,000 to \$100,000 a year for one or two years. ESTAC wants to generate industrially relevant technology-based

solutions to environmental problems and accelerate progress towards sustainable development.

Deadline for proposals is Nov. 24 in the Office of Research, Dec. 1 to ESTAC. For more information, visit the Web site "www.sarnia.com/

groups/estac," call 519-339-4053, fax to 519-339-4436 or send e-mail to estac@ebtech.net.

The National Soil and Water Conservation Program will provide \$2.5 million by March 31, 1999, to support environmental sustainability initia-

tives in Ontario related to food production and processing.

Funds will flow through the Agricultural Adaptation Council. Deadlines to apply for support range from Dec. 1 to Feb. 1, 1998, depending on the area of interest

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Custom dog sketches, the perfect Christmas gift! Well-known artist, specializing in lifelike animal sketches, now accepting orders, 824-1397.

Jack Russell puppies, distinguished tan markings, dewormed and vaccinated, ready to go, 763-8217.

White vinyl mini blind, 29.5" x 56", women's figure skates, size 6 1/2, Ext. 4184 or 767-2330, evenings.

Three-bedroom two-storey house, close to schools and downtown, large basement and garden with mature

maple trees, available June 1, private sale, 766-9189.

Christmas sale featuring quality florals and selected bisque, wooden, brass and silver giftware, Nov. 29, 1 to 5 p.m., 3 Dormie Lane.

Three-bedroom raised bungalow, 2.6 acres in country three km from Guelph, new gas furnace and windows, garage, huge kitchen with wrap-around deck, above-ground pool, baseball diamond, wooden play centre, sand volleyball court, Kelly or Donnie, 822-3248.

WANTED

Daily ride to U of G from Damascus, Ont., will share gas, Dianne, Ext. 2805 or 323-1361.

Used hamster cage and accessories, Ext. 2043 or 821-7069.

House in or near Guelph for visiting professor and family from Scotland from the end of February to late May 1998, would consider exchanging their house near Stirling (25 miles from Edinburgh), Ext. 4800 or mike@envsci.uoguelph.ca.

FOR RENT

Furnished heritage house close to University, three bedrooms, two studies, available for the winter semester, Dec. 24 to May 15, 824-9203.

Furnished two-bedroom condo in historical building in centre of Guelph, everything supplied, rent by the day, week or month, reasonable rates, Carol, 823-1857 or 837-7537.

To place an ad, send to At Guelph, UC Level 4, or fax to 824-7962.

Benefit Claims Will Go by Courier if Strike Occurs

Continued from page 2

community should advise their correspondents to address mail to U of G as follows:

MAILFAST
YYZ YYZ 700313
YOUR DEPARTMENT NAME
PO BOX 9018
JERICHO NY 117538918

The name "University of Guelph" should not appear in the address, notes Ecott. This mail will be brought to campus and distributed by Mail Services.

He recommends that members of the University also advise their correspondents to use fax, e-mail and courier services.

Commercial shipments that would normally travel via other facilities such as express, bus, air freight, air express or truck are not affected. U of G is also exploring the pos-

sibility of having CIBC branches in the Guelph and Kitchener-Waterloo area accept payments for any monies owing to the University, says John Miles, assistant vice-president (finance). U of G cheques payable to suppliers can be picked up at Revenue Control on Level 4 of the University Centre.

For more information, call Mail Services at Ext. 2264 or send e-mail to kecott@fin.uoguelph.ca.

In the event of a full postal strike, employees and retirees can have their extended health-care and dental-care claims sent by courier to Mutual Life. During a strike, claim forms should be sent to Heather Male in Human Resources (Ext. 6597) or dropped off at the HR reception desk on Level 5 of the University Centre.

A courier will go to Mutual Life

Mondays, Wednesdays and Fridays, depending on volume, says Vince Pellegrino of Compensation and Benefits.

Claim cheques from Mutual Life will be sent by courier to Human Resources for distribution to employees through campus mail. Male will call retirees to let them know when their claim cheque is available for pickup.

Pellegrino notes that most employees who receive long-term disability payments from Sun Life have their payments electronically deposited to their financial institution. He encourages all LTD claimants to use electronic deposit, which can be arranged by calling either Arlinda Anselma at Sun Life (416-408-8644) or Eleanor Martin in Human Resources (Ext. 6594).

"Fortunately, almost all of our retirees have their monthly University pension payments electronically deposited to their financial institution, and this will continue during a postal strike," says Pellegrino.

Retirees who have their pension cheque mailed are encouraged to switch to the electronic depositing system as soon as possible. To arrange for this, call Jackie James in Human Resources (Ext. 6595) or have your financial institution call Fran Walczack at Canada Trust (1-800-565-0479, Ext. 3728).

For retirees who don't use the electronic deposit system, November pension cheques can be picked up from Human Resources Nov. 28 between 8:30 a.m. and 4:30 p.m.

LETTERS

FORMULA SHOULD PROVIDE ESSENTIAL FATTY ACIDS

In reading the recent update that Nestlé Canada offered in *At Guelph* Oct. 8, I was interested to note that Nestlé describes its infant formula as being "marketed according to World Health Organization recommendations."

The WHO recommendations of 1993 indicate that, for optimal health, term infant formulas should provide two essential fatty acids — arachidonic acid (AA) and docosahexaenoic acid (DHA) — in similar proportions to breast milk from well-nourished omnivorous mothers.

Sadly, Nestlé does not provide preformed DHA or AA in its term infant formulas in North America or in developing countries. It is indeed unfortunate that these fatty acids are lacking in infant formula.

JULIE CONQUER
HUMAN BIOLOGY AND
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ARBORETUM

The Arboretum Auxiliary presents its second annual Sugar Plum Fairy Craft Sale Dec. 7 from 11 a.m. to 4 p.m. Admission is free.

Theatre in the Trees presents The Cemetery Club, a comedy by Ivan Menchell, Nov. 22, 28 and 29 and Dec. 5, 6, 12 and 20. Buffet opens at 6:30 p.m.; showtime is 8 p.m. Tickets are \$45. Call Ext. 4110 to reserve.

ART CENTRE

Prof. Ron Shuebrook, Fine Art and Music, will give a gallery talk on the Macdonald Stewart Art Centre's newest exhibition, "Paterson Ewen: Paintings from the '90s," Nov. 27 at 7:15 p.m. This will be followed by an opening reception for the show, which runs until Jan. 11. Also opening this month are the exhibitions "Nature Machine" (Nov. 27 to Jan. 4), "Untitled: Non-Objective Objects" (Nov. 29 to July 26) and works by Robert Flack (Nov. 29 to Jan. 4).

Thirty-five frames transformed by prominent artists into works of art will be auctioned off Nov. 22 during a gala that begins at 7:30 p.m. Tickets are \$25 and are available at the art centre.

CONCERTS

The School of Fine Art and Music's noon-hour concert series continues Nov. 20 with the U of G Concert Winds under the direction of John Goddard. On Nov. 27, Prof. Mary Cyr leads the U of G Early Music Ensemble. The free concerts begin at 12:10 p.m. in MacKinnon 107.

The U of G Jazz Ensemble, conducted by Prof. Howard Spring, performs Nov. 20 at 8 p.m. at the University Club. Admission is \$2 at the door.

The U of G Concert Winds perform Nov. 26 at 5:30 p.m. in the UC courtyard.

The U of G Choir, under the direction of Marta McCarthy, present "Glorial Glorial" Nov. 28 at 8 p.m. in War Memorial Hall. Soloist is soprano Adele Kozak. The program will include works by Poulenc, Biedl, Vivaldi, Willan, Coghlan and Daley. Tickets are \$8 and are available at the door, from the School of Fine Art and Music in Zavitz 204 or at the Carden Street Music Shop.

"Sing Me Softly of the Blues" is the theme of a musical performance and art exhibition Nov. 30 at 3 p.m. in Thornbrough 100. Music will be provided by (BM)2 Consort, featuring Bruce MacColl on flugelhorn/comet, Benjamin Murphy on guitar, Barron Chung on keyboard and Jamie Thompson on percussion. The exhibition will spotlight the work of U of G fine art students. Tickets are \$8 and are available at the door, the UC box office and the Bookshelf.

DEBATE

The U of G Debating Society will hold a public debate Nov. 27 at 11:30 a.m. in UC 103. The question is "Should the Human Rights Policy Allow for an Informal Process Before the Written Complaints Stage?" Sponsored by the Human Rights and Equity Office, the debate will be conducted by the teams that will be representing Guelph at the upcoming world championships.

LECTURES

Robert Evans, author of Moral Leadership: Facing the Canadian Leadership Crisis, will speak Nov. 25 at part of the free lecture and author series sponsored by the University Centre and Central Student Association. The series concludes Nov. 26 with Marsha Boulton, author of More Letters from the Country. Both talks begin at 7 p.m. in UC 103.

"Canadian Music and the New Millennium" is the topic of composer Glenn Buhr of Wilfrid Laurier University Nov. 20 at 10 a.m. in MacKinnon 203.

The 23rd annual Fair November, an exhibition and sale of Canadian crafts, runs Nov. 20 to 23 in the University Centre. Hours are 10 a.m. to 9 p.m. Thursday and Friday, 10 a.m. to 6 p.m. Saturday and 11 a.m. to 5 p.m. Sunday. Admission is free.

NOTICES

The 23rd International Conference on Improving University Teaching, slated for July 6 to 9, 1998, in Dublin, Ireland, is calling for papers. This year's theme is "Learner-Centred Universities for the New Millennium: Part 1." Papers are invited on the following topics: "Academic Values for the 21st Century," "The 21st-Century Student" and "The New Teacher/Student Relationship." Dead-

line is Jan. 16. Workshop proposals are also invited. For more information, fax to the University of Mary-land at 301-985-7226, send e-mail to iut@nova.umuc.edu or check out the Web site www.umuc.edu/iut/.

SEMINARS

The Department of Microbiology presents Gurdyl Besra of Colorado State University Nov. 21 at noon in Chemistry and Microbiology 319. The topic is "The Mycobacterial Cell Wall Polysaccharides, Lipids and Glycoproteins Structure, Function and Biosynthesis."

The Department of Biomedical Sciences graduate student seminar continues Nov. 21 with Linda Franchetto discussing the "Repeatability of Hoof Strain Measurements in Horses" and Nov. 28 with Kathryn McDougall explaining "Alkaline Phosphatase Expression in Pre-Attachment Bovine Embryos." On Dec. 5, James Gilmore's topic is "Regulation of the Hepatic Expression of Cytochrome P450 2a5 in Mice." The seminars are at 12:30 p.m. in OVC 1642.

The Graduate-Waterloo Program for Graduate Work in Physics distinguished lecturer series presents Alan Astbury of TRIUMF, Canada's national laboratory in subatomic physics, Nov. 25 at 4 p.m. in MacNaughton 113. His topic is "TRIUMF and Its Science." A reception will follow at the University Club.

The Axelrod Institute of Ichthyology's "Loaves and Fishes" seminar series continues Nov. 25 with graduate student Kanda Reddy discussing "Do Maternal Hormones Affect Early Development in Fish?" and Dec. 2 with Prof. Don Stevens, Zoology, offering "Tales of Tuna and Transgenic Fish." The talks begin at 12:30 p.m. in Axelrod 168.

The Plant Biology Council presents Prof. Mike Dixon, Horticultural Science, discussing the "Canadian Contribution to CELLS" Nov. 27 and chemist Ron Martin of the University of Western Ontario explaining "Surface Science and the Riddle of Dendroanalysis" Dec. 2. Both talks begin at 3:45 p.m. in Axelrod 117.

The Department of Economics will host three visiting speakers this month. All talks run from 3:30 to 5 p.m. On Nov. 21, Bart Lipman of the University of Western Ontario focuses on "Switching Costs in Frequently

Repeated Games" in MacKinnon 238. Hashem Pesaran of Cambridge explains "Pooled Estimation of Long-Run Relationships" Nov. 27 in MacKinnon 232. On Nov. 28, Stuart Mestelman of McMaster looks at "Heterogeneity, Communication, Incomplete Information and the Voluntary Provision of Public Goods" in MacKinnon 238.

The fall biochemistry seminar series wraps up Dec. 3 with Prof. Brenda Coomber, Biomedical Sciences, explaining "Vascular Selection and Tumor Progression" at 12:10 p.m. in MacNaughton 222.

WORKSHOP

Teaching Support Services and Computing and Communications Services are offering a workshop for faculty interested in using Power Point as a presentation tool in their teaching. It runs Dec. 1 from 9 a.m. to noon in McLaughlin 103. Participants are asked to come with ideas to use in their own presentation. To register, call Helen Martin at Ext. 2973 or send e-mail to hmartin@tss.uoguelph.ca.

WORSHIP

Roman Catholic Mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100.

A spirituality circle for women meets Fridays at 11:30 a.m. in UC S33.

The Ecumenical Campus Ministry and Harcourt United Church offer non-denominational Sunday services weekly at 7 p.m. at Harcourt Church, 87 Dean Ave.

COMMUNITY EVENTS

The Guelph Chamber Choir joins forces with the Foothills Brass, the U of G Choir, three local church choirs and the Royal City Ambassadors to sing songs of the Christmas season Nov. 30 at 7 p.m. at the River Run Centre. Tickets are \$21 general, \$17 for students and seniors. The Guelph Chamber Choir's 1997/98 concert series also features performances of Handel's Messiah Dec. 17 at 7:30 p.m. at the River Run Centre, Rachmaninoff's Vespers March 28 at 8 p.m. at Church of Our Lady and Beethoven's Mass in C, Opus 86, May 9 at 8 p.m. at River Run. To buy series or individual tickets, call 763-3000.

"Show and Tell" is the theme when the Guelph Historical Society meets Dec.

2 at 8 p.m. at St. Andrews Church. Everyone is asked to bring an item of historical interest to talk about.

The fifth annual Festival of Trees sponsored by the St. Joseph's Health-Care Foundation runs Nov. 20 to 23 at Guelph Place on Michener Road. Events include a family fun night, teddy bear brunch, juried craft sale and gourmet dinner and dance. For information or tickets, call 767-3424 or 767-3445.

McCrae House will mark the 125th anniversary of John McCrae's birth Nov. 30 with a church service at 10:30 a.m. at St. Andrew's Church and the official opening of the house's new permanent and temporary exhibits at 2 p.m.

The Church of St. James the Apostle, 86 Glasgow St. N., is offering a series of free lunch-time concerts Tuesdays from 12:10 to 12:40 p.m. Upcoming concerts feature vocalists Bonnie Milliner and Ruth Ann Harris Nov. 25 and programs of music and readings with organist Robert Foote Dec. 2 and 9.

Tamarack and the Guelph Children Singers will perform Christmas and winter music Dec. 4 to 6 at 8 p.m. at the River Run Centre, as part of a recording session for a new CD. Tickets are \$18 in advance, \$20 at the door.

The Central Ontario Orchid Society meets Nov. 24 at 7 p.m. at the Rink in the Park on Seagram Drive in Waterloo. Guest speaker Doug Kennedy will discuss "Oncidium Intergerics."

The Canadian Federation of University Women will meet Nov. 25 at 7:30 p.m. at the Guelph Steelworkers Centre, 89 Dawson Rd. Guest Speaker is Joe Canavan, past president of GT Global Canada, who will discuss "Global Investing: A Trip Around the World in 45 Minutes." For more information, call Joyce George at 856-9094.

The Elora Festival Singers present "A Village Messiah" Dec. 5 at 7:30 p.m. and Dec. 7 at 3 p.m. at St. John's Church in Elora. Tickets are \$20 and are available at 846-0331.

Lakeside Bible Church presents the musical production The Magic, the Majesty of Christmas Dec. 11 to 13 at 8 p.m. Tickets are \$6 at the door or in advance at Everlasting Impressions, the Storehouse or the church office, 836-8141.

At Guelph will publish one more issue this semester on Dec. 3. Copy deadline for that issue is Nov. 26. The first issue in the new year will appear Jan. 14. Copy deadline for that issue is Jan. 7.

Are you organizing an upcoming event? Remember to send information to At Guelph at least a week before publication date. Mail to At Guelph on Level 4 of the University centre, fax to 824-7962 or send e-mail to bchance@exec.admin.uoguelph.ca.

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IN THIS ISSUE

- 2 BOARD OF GOVERNORS** approves revised MET operating budget.
- 3 STUDENT HEALTH** facility takes a turn for the better.
- 5 SOCIOLOGIST** takes research to a higher plane.
- 6 CAMPUS MINISTER** Lucy Reid explains why giving is vital to our well-being.
- 7 TORONTO** arts foundation pays tribute to visual artist.
- 7 GILMOR AWARDS** honor two for commitment to student life.
- 9 CAMPUS FUND** is an investment in students.



THOSE AGGIES ARE AT IT AGAIN!

Members of OAC's class of '98 weren't at all sheepish about the present they left for OAC dean Rob McLaughlin, left, in his office last week — a makeshift stable complete with livestock. Helping McLaughlin welcome this sheep into the OAC fold is Lyle Vanciel, federal minister of agriculture and agri-food, who was on campus to announce new federal/provincial funding for the Food Science Building (see story below and related photo on page 4). McLaughlin and Vanciel are Aggies themselves, so they weren't taken ab-a-a-ck by the woolly visitor.

PHOTO BY MARTIN SCHWALBE

The holiday season is a time for sharing and thinking of others, especially those in need. I am proud of the many contributions the members of this university continue to make to their community and beyond. As the new year draws near, I would like to take this opportunity to thank everyone on campus for their goodwill and for their ongoing support of the University and each other. You help make the University of Guelph a great institution, an exciting place to study and work, and a caring community. My family wish you and your family happiness and good health during this holiday season and throughout the coming year.

Happy holidays,
Mordechai Rozanski

Getting in on the Ground Floor

Federal, provincial funding will allow much-awaited restoration of first floor of Food Science Building

IT WAS GOOD NEWS for U of G food scientists Nov. 28. Lyle Vanciel, federal minister of agriculture and agri-food, and Noble Villeneuve, Ontario minister of agriculture, food and rural affairs, were on campus to announce that Guelph will receive Canada/Ontario Infrastructure Works funding of more than \$2.6 million for the much-anticipated restoration of the first floor of the 75-year-old Food Science Building.

Faculty, staff, architects, contractors, Guelph MP Brenda Chamberlain and MPP Brenda Elliott were all on hand to hear the announcement at an event hosted by president Mordechai Rozanski.

In a speech, Rozanski noted that, thanks to the Infrastructure Works Program, "this building is getting a second chance and the Department of Food Science is getting the first floor of the home they need to take them into the next millennium."

A restored facility with state-of-the-art equipment is essential for an analytically oriented and experimentally based discipline like food science, said Rozanski. He added that the Department of Food Science "is recognized here at the University of Guelph, and in industry and government around the world, as a progressive, innovative faculty where academic excellence is routinely achieved. As a measure of its reputation and partnership mission, it harbors three NSERC (Natural Sciences and Engineering Research Council)

chairs and one industrial chair."

The department has been without a permanent home since 1995, when structural cracks discovered at the rear of the building forced an earlier-than-planned evacuation. Since then, the department's byword has been "mobility." Faculty can be found in five locations across campus, and research and teaching laboratories are equally far-flung.

Rozanski praised acting food science chair Rick Yada and other members of the department for putting up with the prolonged dislocation.

"It is a testimony to Rick and his faculty, staff and students that they have not only survived the diaspora, but even prospered. Morale, a sense of identity and an understanding of the mission of the department have been admirably maintained."

Renovations will see the first floor equipped with teaching labs in food chemistry and analysis, administrative offices and support areas for fine analytical instrumentation, chemical preparation and glassware cleaning.

Rozanski acknowledged significant start-up funding from the

Guelph Food Technology Centre (GFTC) that allowed renovators to waterproof windows and the roof of the Food Science Building, install new drainage, electrical sockets and insulation, and overhaul the stonework — all essential work preparatory to the major renovation.

He went on to note the complementary work of the two organizations, describing them as "two peas in a pod." The Department of Food Science conducts the basic research, he said, and GFTC does the science

Continued on page 4

Co-operative Research Strategy Will Help Carve Out Piece of Funding Pie

Town hall meeting outlines criteria for federal and provincial support

GUELPH HOPES to maximize research funding opportunities from the Canada Foundation for Innovation (CFI) and the Ontario Research and Development Challenge Fund (OCF) by developing strategic research initiatives.

A key to obtaining funds under these programs is having faculty across campus develop a co-operative research strategy with deans and the Office of Research, says Prof. Larry Milligan, vice-president (research) and chair of the CFI/OCF

co-ordination committee. Details of the two programs were outlined by members of the committee at a Nov. 20 town hall meeting attended by 125 U of G researchers and staff.

"I want to encourage co-operation across campus to link complementary initiatives into cohesive proposals to optimize our potential for success," said president Mordechai Rozanski. "Although preparation of applications for these competitions will require considerable time and work, we have an opportunity to

strengthen and build our research capability within the University and our collaborations and partnerships externally."

In addition to Milligan, the CFI/OCF co-ordination committee consists of Prof. Iain Campbell, provost and vice-president (academic); Prof. Constance Rooke, associate vice-president (academic); Prof. Ken Jeffrey, Physics, chair of the Research Board; and John Mabley,

Continued on page 4

Revised Ministry of Education and Training operating budget approved

AT THE FINAL MEETING of Board of Governors for 1997, president Mordechai Rozanski advised members of several initiatives under way at the provincial and national levels to address the serious issues of accessibility, underfunding, student assist-

ance and debt load. He also reported on Guelph's recent success in the *Maclean's* university rankings (a move from fourth to second place among comprehensive universities and a second-place reputational ranking for overall quality and producing the lead-

ers of tomorrow). The board heard how this success came in a year when Guelph not only exceeded its budgeted enrolment targets, but did so with an entering class average of 81 per cent.

FINANCE COMMITTEE

The revised Ministry of Education and Training (MET) operating budget was approved. Highlights of the revised budget, which updates assumptions contained in the preliminary budget approved in April, are:

- The impact of labor agreements reached since the preliminary budget was approved have been factored into the revised budget. Negotiations have been completed with nine of the employee groups on campus.
- The revised budget also factors in the impact of '96/97 audited year-end results. U of G has identified funds to meet the \$890,000 unallocated savings target in the preliminary budget. These funds were realized from the unexpected one-time grants received from MET in fiscal '96/97 and confirmed as part of the year-end audit.
- Finance Committee chair David Lees said the University remained "on schedule and on track" in three key areas — identifying funds to cover the "unallocated savings" target of \$890,000, remaining committed to meeting the deficit repayment target and

keeping all other parts of the budget balanced.

Copies of the revised budget are available from the Finance Office and the Board Secretariat in the University Centre.

LONDON HOUSE

B of G learned that the sale of London House is expected to close Dec. 15. The money received from the sale (after covering the costs of the sale and any outstanding debt on the house) will be endowed, and the interest earned on the endowment will be used to support study-abroad opportunities for students. Several other housing alternatives for London semester students are currently being reviewed. The cost of accommodation for students planning to study in London next semester will be partially subsidized from the proceeds of the sale because of the short notice of the change.

During discussion following questions from Graduate Students' Association representative Margery Longstaffe, who was extended speaking privileges by the board, Prof. Iain Campbell, vice-president (academic) and provost, said he was optimistic that even more students than before could be accom-

modated in the London semester program when housing arrangements are finalized for the 1998/99 academic year.

U OF G FOUNDATION

The annual report of the U of G Foundation to MET was approved. Despite tax changes in the last federal budget that reduced the obvious benefits of making charitable donations through the foundation, the University intends to continue to operate its foundation. John Mabley, vice-president (development and public affairs), noted that the foundation still offers tax advantages for out-of-province donors and that there is some question about the permanency of the recent tax changes.

PRESIDENT'S REPORT

Rozanski told the board of his serious concern about the degree of student indebtedness and its effect on accessibility, as part of the larger decline in public funding of universities in Ontario. He noted that U of G recently conducted a survey to better understand the dimensions of the problem at Guelph. The results indicate that 41 per cent of graduating students in all undergraduate programs hold Canada Student Loans

and OSAP loans, and the average amount of their debt is \$22,900.

The president said he is committed to continuing efforts to increase non-loan-based student assistance at U of G and pointed to the success of the recent ACCESS campaign in raising \$29.4 million for student aid. He stressed that in addition to continuing fund-raising efforts, he is committed to lobbying the government to move away from relying solely on student loans to increased assistance in the form of grants and bursaries, as well as funding debt-relief programs. This was the message conveyed by Rozanski and other Ontario university presidents at a recent Council of Ontario Universities (COU) meeting with Finance Minister Paul Martin, who was urged to deal with this issue. Rozanski advised the board that he and other presidents also urged Martin to deal with the serious issue of research underfunding.

Rozanski also informed board members of an initiative involving seven other organizations, including the Association of Universities and Colleges of Canada, the Canadian Association of University Teachers, the Canadian

Federation of Students and the Canadian Graduate Council. The organizations recently held a round-table meeting to draw up recommendations on student assistance and debt relief to present to the federal government before the spring budget.

The president reported that he attended the recent Chancellors' Summit titled "Ensuring Excellence: A Summit on the Future of Ontario Universities" with U of G chancellor Lincoln Alexander and B of G member Simon Cooper. Organized by COU and the Bank of Nova Scotia, the summit was attended by about 100 representatives from universities, the private sector and government, including Premier Mike Harris and Education Minister Dave Johnson.

The message focused on the crisis in public funding of Ontario universities, the serious level of student indebtedness and the need to implement the recommendations of the advisory panel on future directions for postsecondary education chaired by David Smith. Rozanski praised business leaders for their support of universities in this effort to reverse the government's disinvestment.

Dear David Johnson:

We need the arts, we need culture, we need enlightened public policy

Editor's note: President Mordechai Rozanski and vice-president (academic) Iain Campbell wrote this letter to David Johnson, minister of education and training, in response to remarks Premier Mike Harris is quoted as making recently in Toronto. A copy of the letter has been sent to Harris as well.

Media reports last week alleged that the premier had made disparaging remarks about the value of various disciplines in the social sciences and humanities. The premier is reported to have said that university graduates in the humanities, sociology and geography "have very little hope of contributing to society in any meaningful way" (*Globe & Mail*, Nov. 21).

The occasion was the Chancellors' Summit on the Future of Ontario Universities, held in Toronto, which we're pleased to note you attended and addressed. The remarks in question were presumably made in conversation with reporters, as they were not contained in the speech the premier made to the group. We can only hope that Premier Harris has been misquoted.

At the "summit" where Premier Harris spoke, a number of business executives joined university presidents and chancellors in emphasizing the crisis in university funding and the value to individuals and society of a university education. John Cleghorn, chair of the Royal Bank and chancellor of Wilfrid Laurier University, spoke of the important role of universities in career preparation, but referred specifically to the need to preserve and enhance our strength in the liberal arts, calling them critical for both life and the world of work. On the day after the premier's remarks, president Mordechai Rozanski held an interview with radio station CJOY to refute the alleged remarks and to reinforce the importance of humanities and social science disciplines both to this university and to society. Permit us briefly to share our views on this issue, with which we hope you can agree.

Employment statistics and calculations made on return on investment confirm that whatever disciplinary area is pursued, a university education offers excellent value. Successive provincial governments have recog-

nized the ever-increasing importance of university education and research for a knowledge-based economy. But the future wealth of an individual or a province is only one approach to the question of value, and not all "meaningful" contributions to society are measurable by the generation of wealth.

The education that occurs in universities is something more than preparation for the workforce. It is also — this should not need saying — a critical factor in the making of a civil and humane society. The importance of the arts, humanities and social sciences in this regard, and particularly for the discovery of "meaning" in our lives, should be self-evident.

We are, of course, concerned with preparing graduates for the world of work. In a balanced university such as our own, professional and applied programs are very highly valued. We would, however, insist that the social sciences and humanities (as well as the "pure" sciences) also produce graduates who are well-equipped to succeed in their working lives. For this reason and others, we value them equally. And lest we fall back solely on the "ennobling role" of the humanities and social sciences, it should be emphasized that 100 per cent of our PhD graduates in geography at Guelph (since the inception of the program in 1989) have obtained positions in their fields of study with the public and private sec-

tors. This is but one example of the "value" of the disparaged disciplines.

We hear constantly from business leaders of the importance for today's workplace of skills such as literacy, critical thinking and cross-cultural understanding. Our own Fred Evers, professor of sociology, has done an important study of the needs of employers demonstrating the "commercial" value of these skills and others that are developed by a liberal arts education. That these skills and sensitivities — as well as the knowledge generated by scholars in the humanities and social sciences, and the work produced by artists in all fields — also contribute critically to both private life and the civility of our society is something more than a fortuitous dividend.

We need the arts, we need culture, we need enlightened public policy. We need universities in which knowledge of many kinds will be advanced and in which the disciplines speak to one another. We need also to understand that "relevance," however critical, is a complex phenomenon; it is hard to measure because knowledge and its applications are endlessly complex and interrelated.

We at the University of Guelph accept the need for a degree of differentiation among universities and a cost-conscious approach to our responsibilities. We and other Ontario universities have documented our record of action in these areas. At the same time, we will continue to press

strongly the case for a broad spectrum of scholarship in a balanced institution. That is how we will best serve our students, the province and society.

MORDECHAI ROZANSKI
IAIN CAMPBELL

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CANDIDATES FOR DIRECTOR TO SPEAK

Candidates for the positions of director of the School of Fine Art and Music and director of the School of Languages and Literatures will give public presentations in December. Profs. Mary Cyr and Jack Horn, candidates for director of the School of Fine Art and Music, will both speak Dec. 4 in Room 120 of the MacKinnon building, Cyr at 11:30 a.m. and

Horn at 2:30 p.m. The three candidates for the director of the School of Languages and Literatures will speak as follows: Prof. Alain Thomas, Dec. 2 at 4 p.m.; Prof. Padraig O'Leirigh, Dec. 3 at 1:30 p.m.; and Prof. Daniel Chouinard, Dec. 3 at 4 p.m. All three talks are in Room 115 of the MacKinnon Building. Written communications to the selection committees about these candidates are invited from members of the University community. They should be sent to College of Arts Dean Carole Stewart.

ADVISORY GROUP SET FOR PROJECT VISION

The Human Rights and Equity (HRE) Office has established the project advisory group for Project Vision: Toward a Campus Free from Harassment and Unfair Treatment Based on Sexual Orientation. The group is made up of U of G students, staff and faculty and individuals from the Guelph community, who will provide the HRE Office with advice and resource information to help meet the project's objectives. Human rights consultant Jodie McConnell encourages the participation of all interested members of the University community in the project's various research initiatives, which will begin in the new year. For more information, call her at Ext. 3000 or send e-mail to jmcconnell@hre.uoguelph.ca.

LIBRARY REDUCES HOURS BETWEEN SEMESTERS

The U of G Library will operate on a reduced schedule and with limited services during the holiday and between-semester period. From Dec. 13 to 23, McLaughlin Library will be open from 8:30 a.m. to 7 p.m. Monday to Friday and noon to 7 p.m. on weekends. The veterinary science section will be open from 8:30 a.m. to 5 p.m. Monday to Friday and closed on weekends. Both libraries will be open Dec. 24 from 8:30 a.m. to 5 p.m., closed Dec. 25 to 28, open Dec. 29 and 30 from noon to 5 p.m. and closed again Dec. 31 to Jan. 2. On Jan. 3 and 4, McLaughlin will be open from noon to 7 p.m., and veterinary science, from noon to 5 p.m. Beginning Jan. 5, both libraries will be open 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on weekends and holidays. For reference service hours, call Ext. 3617.

We Love a Parade!

U of G float a collaborative effort of dozens across campus



All decked out for the holidays, U of G's MadVac machine makes a clean sweep at the Santa Claus parade with Tim Gaw of Grounds at the wheel.

PHOTO BY MARTIN SCHWALBE

IT MAY NOT HAVE BEEN Macy's parade material, but what it lacked in polish, it more than made up for in spirit. The "Spirit of Guelph," the University's first-ever entry in the local Santa Claus parade, was entirely a volunteer effort using "borrowed" materials from departments across campus.

The float — trucks and trailers from Facilities and Hospitality Services — was built by Facilities Services staff using borrowed carpentry shop materials. The decorations were also on loan from Hospitality Services, Athletics and Alumni and Development. Costumes and set design were courtesy of the drama program. Student volunteers from College Royal, U of G cheerleaders, mascot Griff and a festively decorated MadVac machine completed the picture — a vignette of activities showing the diversity and spirit of faculty, staff and students at the University.

Darlene Frampton, director of communications and public affairs, says it was important for U of G to participate in the parade because the University is an integral part of the Guelph community.

"It was also a terrific opportunity for our staff and students to work together," she says. "It was truly a collaborative effort, one that speaks volumes about the spirit of this university."

Members of the Santa Claus Parade Committee were Sheila Attwell, Hospitality Services; Carla Bradshaw, Alumni Affairs; Tim Gaw, Grounds; Andrea Sutton, College Royal Committee; and Ruth Sproule, Communications and Public Affairs.

Santa's helpers included staff members Margaret Bates, Kelli Bauer, Joe Bourget, Frank Burkard, Krystyna Czernicki, Paul Cook, Tracey Damiano, Mark Dennis, Stu Digweed, Kathryn Elton, Adrian Fagan, Gerry Finley, Darlene

Frampton, Dudley Gibbs, Rick Henderson, Ken Kron, John Lawrence, Martha Leibbrandt, John Mabley, Wayne Maidens, Peter Milton, Craig Moore, Alison Nolan, Michelle Normandin, Paul Ord, John Reinhart, Sheila Robertson, Garry Round, Paulette Samson, Roger Shantz, Jim Walker and Murray Wallace.

Student volunteers were Greg Albert, Michelle Broome, Jen Cane, Kelly Cavanagh, Mandy Cheetham, Adrienne Colwell, Adele Cooper, Ian Ferguson, Laura Forster, Mitch Healey, Ryan Heffron, Sarah Johnston, Louise Kelly, Brandon Knoll, Jeff Malcolm, Sabrina Matthews, Mark Nibourg, Laurie Rau, Vilakone Siamanatham, Jason Swan, Isaiah Swidersky, Derik Tam, Jaime Walker, Yen Wong and Wendy Wright.

Adding to the spirit of things was the College Avenue School cheerleading team.

Student Health Facility Takes a Turn for the Better

Clinic to move into bigger quarters in Powell Building in new year

STUDENT HEALTH SERVICES, whose facilities in Macdonald Hall have been ailing for a number of years, plans to make a full recovery when it moves to larger quarters in the Powell Building next semester.

The move, slated for reading week in February, will provide a long-needed solution to ongoing problems that have plagued the facility since it was "temporarily" set up in Macdonald Hall in 1967, says Jose Robinson, director of Student Health Services.

"Those problems include a lack of sufficient space for expansion, lack of privacy to ensure confidentiality, environmental concerns such as a lack of air conditioning, poor access for emergency vehicles and the disabled, and insufficient local parking," she says.

The new clinic will contain 12

examination rooms, three multipurpose clinical rooms and a larger waiting room that will better accommodate the comfort and confidentiality of patients registering at the clinic, says Robinson. Plus, it will be close to the large Athletics Centre and Alumni House parking lots, making it convenient for emergency and off-campus student access.

Designer of the new clinic is Thomas Nater of Parry Sound, who played an instrumental role in renovating student health facilities at Mohawk College and Carleton University. A building committee made up of staff and student representatives has been supervising all stages of the development.

The move to the Powell Building might also mean the future development of a second-floor clinic that would be jointly managed by Student

Health Services, the Athletics Department and the Department of Human Biology and Nutritional Sciences. Robinson emphasizes, however, that these plans are only beginning to take shape at the proposal level.

Also moving to the new location are the Wellness Centre and the Wellness Education Training Troupe, programs launched by Student Health Services as part of a wellness campaign.

Meanwhile, the space in Macdonald Hall will be reclaimed for residence with a projected capacity of about 30 beds.

During its week-long move, the clinic will be closed, and limited on-call emergency physician services will be available. For more information about alternative student medical services during the move, call Robinson at Ext. 4333.

PEOPLE

YOUNG SCIENTISTS HONORED

Fourth-year environmental science student Elliott Welch received the 1997 Financial Post Scholarship for Environmental Science. He is also the winner of a 1997/98 Special Corporate Award for Canada Scholars in Science and Engineering, receiving the Governor General's Canada Scholarship in Environmental Sciences. Special Corporate Awards also went to engineering students Nicola Calder, April Meyer, Kristi Rowe and Lillian Zaremba, environmental science students Tina Bailey and Jennifer Kidon, and molecular biology student Joanna Leyenaar.

GUELPH GRAD TOP WRITER

Author Jane Urquhart, who earned a BA from Guelph in 1971, has received the Governor General's Award for Fiction for her fourth novel, *The Underpainter*.

ARTIST ELECTED PRESIDENT

Prof. Ron Shuebrook, Fine Art and Music, was elected president of the Universities Art Association of Canada at its annual conference in Vancouver last month. A solo exhibition of new paintings by Shuebrook runs Dec. 6 to Jan. 10 at the Olga Korper Gallery in Toronto.

ANIMAL SCIENTISTS EARN KUDOS

Two members of the Department of Animal and Poultry Science were honored at the annual meeting of the Canadian Society of Animal Science. Prof. Brian McBride received the Shur-Gain Award for Excellence in Nutrition and Meat Science. Prof. Jock Buchanan-Smith was presented with the All-Tech Award of Merit.

ENGINEERING STUDENTS LAUDED FOR CONTRIBUTIONS

Four School of Engineering students have received the 1997 Canadian Federation of Engineering Students Award, which recognizes students who have enhanced the image of engineering through university and community endeavors. Guelph winners are Adam Lacombe, Wayne Jenkin, Jeffray Whitty, Wayne Sorensen, Eric Monteith, Mike Wigglesworth and Keith Driver.

IN MEMORIAM

GORDON WILLIS, workshop supervisor in the Department of Physics from 1969 until his retirement in 1988, died Nov. 28. He was 70. While at Guelph, he won the Sigma Xi Award for outstanding technical support. He is survived by his wife, Rita, and children, Brian, Tina McKenna, Rick and Randy, and seven grandchildren.

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Food Science Research, Teaching Vital

Continued from page 1

and development leading up to a product hitting the shelves. "For both to realize their potential, they must fall in step with one another."

Vandief and Villeneuve both noted the growing and central role the community and U of G are playing in the food industry.

Vandief, describing himself as "a former student of this great teaching and research facility" (he graduated from OAC in 1966), said food science research and teaching play a vital role in Canada's national economy.

"Nearly half of Canada's food-processing industry is based here in Ontario, with Guelph the focal point for collaboration and partnerships that will lead food science research in Canada into the next century," he said.

Villeneuve noted that U of G's Department of Food Science "is at the centre of tremendous research activity advancing our knowledge of processing technology, food biotechnology and food safety, to mention just some of the areas being worked on



On hand to celebrate the federal and provincial funding for the Food Science Building are, from left, MPP Brenda Elliott, OAC dean Rob McLaughlin, OMAFRA minister Noble Villeneuve, president Mordechai Rozanski, federal agricultural minister Lyle Vandief, MP Brenda Chamberlain and acting food science chair Rick Yada.

PHOTO BY MARTIN SCHWALBE

here. This investment will reconfirm the University of Guelph's position as a pacesetter in the agri-food industry."

The renovations are expected to

be completed by September 1998, with the University committed to also renovating the building's upper 2 1/2 floors later on.

BY ALEXANDER WOOLEY

Researchers Urged to Move Quickly

Continued from page 1

vice-president (development and public affairs).

The two funding programs were announced in the last federal and provincial budgets. The CFI will provide \$800 million over the next five years (an estimated \$1 billion with interest); the OCF will provide \$50 million over 10 years. Both programs have been created to enhance wealth generation and job creation and will offer unprecedented levels of government funding for research infrastructure.

"It is the first time in the history of Canada that governments have recognized the importance of research infrastructure at Canadian universities," said Milligan. "It has been a decade since people raised alarm at the state of research infrastructure."

Under CFI guidelines, 40 per cent of funding is available federally; the remaining must come from other sources. Virtually all sources of infrastructure support will qualify for the program; the exceptions are funds from the federal granting councils. The guidelines also stipulate that:

- funding is provided only for research infrastructure;
- applications must be forwarded by the institution, not individuals; and
- research must relate to science, health, engineering or the environment.

The CFI has six categories — strategic development, major installations, regional/national facilities, equipment, new opportunities and institutional reserve. (The last is earmarked for small universities; U of G is not eligible.)

Strategic development will be the major emphasis (\$500 million to \$600 million) of the program; there will be competitions for this category in 1998, 2000 and perhaps in 2001,

said Milligan.

The budget of the major installations program will be \$50 million to \$120 million; annual competitions will be held to help institutions with acquisition, development or construction.

The budget for regional/national facilities will be \$60 million to \$150 million. This program is designed to encourage institutions to plan co-operatively as regional or national consortia. Annual competitions will be held.

The budget for equipment awards, which will supplement existing Natural Sciences and Engineering Research Council and Medical Research Council programs, will be \$20 million to \$40 million; competitions will run in 1998 and 1999.

The new opportunities program, with a budget of \$60 million to \$120 million and two competitions annually, will help institutions recruit exceptional researchers and ensure that new recruits have access to research infrastructure.

"There is a clear expectation that we think in a visionary way about infrastructure to serve the needs of the institutional research community and beyond," said Milligan. "There will be little tolerance for funding projects that duplicate existing programs elsewhere. Of course, in all these competitions, excellence in research has to be a given."

Based on U of G's average success with federal granting councils, Milligan estimates that Guelph could receive \$25 million over five years from the fund.

Criteria for the OCF are less clear, largely because the funding formula is split three ways. One-third of the funding will come from the province, one-third from the private sector and one-third from the university. The

OCF will support research costs for approved projects, and it's hoped the fund can be used to leverage project submissions to the CFI.

"The major research universities in the province are strongly lobbying to have a significant portion of the OCF available to help leverage CFI funds, with the remainder available for personnel and operating costs," said Rozanski. "If this happens, the OCF could provide one-third of the 60-per-cent matching required by CFI."

Milligan said that many questions about how the OCF will be handled remain unanswered. But he noted that \$50 million is available for 1997, and he urged researchers to move quickly on their research proposals. He envisages researchers working together with the Office of Research to submit proposals well before the end of the fiscal year.

"The sooner we can work with you, the more we can be successful," he said.

Prof. David Swayne, Computing and Information Science, suggested that U of G work on linking projects to put together common themes that maximize benefits to everyone.

CFI ideas collected by the Office of Research to date include an agri-food and rural research thrust, an advanced analytic science strategy and an emphasis on aquatic biology. Under the category of major installations, Guelph is considering a proposal for magnetic resonance imaging equipment.

Milligan said there would also be co-ordination among university presidents to develop national strategies such as high-capacity computing and digitization of libraries.

BY ANDRES KAHAR
AND MARGARET BOYD

The Friendly Skies?

Airlines don't pay as much attention as they should to human aspects of flying a jetliner, sociologist says

ONCE A MONTH for the past six years, Prof. Victor Ujimoto, Sociology and Anthropology, has packed a briefcase and boarded a plane. The final destination doesn't interest him, and he doesn't visit beaches or tourist attractions when he arrives. For Ujimoto, the journey is half the fun and all work, as he superimposes an impromptu U of G research lab in an airliner cockpit 35,000 feet up.

Ujimoto is one of a handful of experts in the world on cockpit resources management or CRM, the study of human factors in flying planes. What he learns from studying airline crews as they fly long-haul routes he later uses as teaching and lecture material to help those same crews fly more safely.

"This is applied sociology, monitoring the social and cultural aspects of modern 'glass-cockpit' aircraft," he says.

A former Royal Canadian Air Force officer, Ujimoto has seen how human error sometimes goes unnoticed in airplane cockpits. He has his share of horror stories. On one trans-Atlantic jumbo jet flight, for example, the airline captain arrived at the airport late after an argument with his teenage daughter. At the pre-flight briefing, attended by the crew and with Ujimoto observing, the captain failed to appreciate weather reports that both London's Heathrow Airport — their intended destination — and Charles de Gaulle Airport outside Paris, his nearest diversionary airfield, were fogged in. It was only once in the air and approaching Europe that the pilot finally grasped the situation. Through good luck, he had enough fuel to divert somewhere farther away — in this case, Frankfurt, Germany.

"Most disasters in the air are the result of an alteration of behavioral pre-conditions or routine, added to which comes a later unanticipated interaction," says Ujimoto. "This may trigger a crash or an incident. In that example, the captain altered his normal behavioral routine — the pre-flight briefing — because he was late. During the flight, he discovered fog in London, an unanticipated interaction. This time we were lucky."

Ujimoto believes incidents of this sort show that airlines don't pay as much attention as they should to the human aspects of flying a jetliner.

Initially, Ujimoto's research was funded by the Social Sciences and Humanities Research Council. Today he has other sources, including the airline industry itself.

Pierre Forget, flight operations manager for Air Canada, says his airline became involved with Ujimoto's research because its director of training was keen to see a greater emphasis on CRM.

Air Canada now has a three-day CRM course for all new pilots, which includes simulator training of responses to CRM problems. Pilot proficiency is also regularly checked during retraining courses.

Prof. Ron Hinch, chair of the Department of Sociology and Anthropology, says Ujimoto's work illustrates how important it is to take sociological factors into consideration when creating policies and designing safety regimens. "His examination of how flight crew behavior affects decision making and situational awareness is important precisely because it has the potential to have widespread implications for increasing public safety on these flights. It is the perfect marriage between sociological knowledge and applied action."

Ujimoto conducts his research by attending crew briefings before takeoff, then sitting in the cockpit for the actual flight. He takes notes on the interaction between individual flight-deck crew members and how they manage their flight controls.

Currently in a research semester, Ujimoto is using the time to promote his professional credo to airline industry officials and airplane makers, as well as fellow academics. And his time is much in demand. He has recently been to Boeing Aircraft (the world's largest airline manufacturer) in Seattle, spent a week at Airbus Industries in Toulouse, France, in September and spoke at the International Flight Safety Foundation's 50th-Anniversary Conference in Washington, D.C., in November. A paper he wrote on the Japanese aviation industry has just appeared as a chapter in a new book, *Japan at Century's End: Changes, Challenges and Choices*.

Ujimoto recently expanded the notion of cockpit resources management to something called corporate resources management, which he hopes will make airlines see that the reputation of their service and flight safety is based not solely on the people who fly the planes, but also on the entire corporate culture, from CEOs to pilots to maintenance personnel to marketing and ticket agents.

Invariably, when someone learns of Ujimoto's research, he is asked: "What's the safest airline to fly?" Although he declines to set up a rating system, he is willing to share a few more horror stories as anecdotal evidence.

"On some foreign carriers, the captain might speak one language and the first officer another. Will they be able to communicate effectively if there's a problem in flight or during take-off or landing? A lot depends on the degree of assertiveness of the first officer."

Ujimoto calls this widely prevalent and potentially dangerous situation the "Captain is God" syndrome.



Thanks to his research, Prof. Victor Ujimoto always gets to visit the cockpit when he flies. Here, he sits behind the controls of a United Airlines Boeing 747-400 at the gate in Auckland, New Zealand.

"Besides language problems, you may have hierarchy in a certain culture that, translated to the cockpit, does not permit a crew member to question or confront a captain who has missed something critical to flight safety. Sometimes aircrew cross over from one plane type to another, and a flight control lever that a pilot pulls in one cockpit might be a 'push' in another."

Ujimoto also notes that when two airlines merge, the pilots with the larger airline often maintain a sense of elitism over their "smaller" colleagues. "Likewise, the bigger the plane, the more personal prestige accruing to the pilot. A Boeing 747-400 is the cream at the moment, and a crew member from a small DC-9 may not be on an equal footing with the 747 crew because of this. These sorts of subtle sociological issues can prove critical."

Ujimoto attended both Royal Roads and the Royal Military College of Canada. Through the RCAF, he earned his B.Sc. in mathematics and physics at the University of British Columbia. After a brief period of flight training — Ujimoto's class would have been the first flight-trained for the ill-fated Avro Arrow — he transferred to the Directorate of Radar Data Processing at Air Force Headquarters in Ottawa. After retiring from the RCAF, he earned his MA

from UBC in 1969 and his PhD in 1972, the year he also arrived at Guelph. This year marks his 25th anniversary with U of G.

In addition to his new work on corporate resources management, Ujimoto is investigating how encroaching computerization and head-office number crunching affects flight safety.

"Planes don't take on as much extra fuel as they used to," he says. "Analysts are continually doing risk-management calculations: 'Does an airline really need to take on extra fuel to divert to Brussels if there's a problem at Heathrow and Charles de Gaulle? How often are those airports actually fogged in?' The result is that airlines take on less extra fuel than they used to. It's a statistical game."

Ujimoto points to an incident in the 1980s where an airliner was forced to make an emergency landing in Gimli, Man., after it ran out of fuel in mid-air. "That pilot was a glider pilot who had learned to fly as an Air Force fighter pilot. Could a computer-only pilot of the future do what this man did, actually flying the plane to the ground? I think there is a potential danger, a complacency if you will, when you leave it all up to computers."

BY ALEXANDER WOOLEY



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This is the last issue of At Guelph for the fall semester. The first issue of 1998 will appear Jan. 14. The staff of At Guelph and Communications and Public Affairs wish you a happy holiday season and look forward to turning many new pages with you in the coming year.

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A GIFT IS NOT A GIFT IF IT COMES WITH STRINGS ATTACHED

"To give freely and unconditionally is to enlarge the human heart."

BY LUCY REID

GIVE LIKE SANTA, SAVE LIKE SCROOGE" urges the commercial at this time of year. The implication is that we can be generous to our friends and family with Christmas gifts, while not spending too much of our precious earnings. Giving and self-interest are firmly wedded together. And there is a deeper question that is troubling: just how does Santa give, according to our cultural myths? Our children know the answer well: Santa gives conditionally. Santa gives to those who are deserving — to the good, not the bad.

Of course, a literalism about modern myths is as dangerous as literalism about ancient myths. But the implication that gifts are given only to those who are nice or good runs deeply through our societal attitudes. This is not just Santa's issue; it is ours as we contemplate this season of giving. And it is our issue as we make decisions politically and personally in daily life with regards to who we help, who we share our financial resources with, who we consider deserving.

A gift is no longer a gift if it comes with strings attached. But the desire to attach strings is very strong, because it subtly transforms giving into an exercise of power. I will give you a beautiful Christmas gift so that you will be indebted to me. I will make a generous donation to this cause if it measures up to my ethical or political standards. Canada will give aid to a developing country if it develops along certain lines, preferably with Canadian expertise and technology. Give like Santa, save like Scrooge.

The concept of giving without expectation of anything in return has become foreign to us. The idea that we might give to the undeserving without conditions or strings is shocking. And yet at the core of much of the spiritual teaching of the world's religions is the knowledge that giving is an indication of our gratitude, and gratitude sets us free from selfishness.

To give freely and unconditionally is to enlarge the human heart. It turns our possessions and wealth into resources to share, rather than things that possess us. Money makes a wonderful servant, it has been said, but a terrible master. Money and wealth are chains around us — golden ones, but chains none the less. Not because they are bad in themselves, but because they create the illusion that we are deserving, we are better people than those without. And what we have, we tend to want to keep.

In Buddhist practice, as in other spiritualities, detachment is



the goal of meditation and self-denial. Buddhist wisdom understands that nothing in this life is permanent, and so there can be a wonderful abandon in giving and celebration. We do not need to cling to our possessions, but rather, through giving them away, we can learn to give our hearts and ourselves away. This

philosophy is akin to the aboriginal understanding that we can share what we have, but not possess it.

Judaism developed the practice of tithing — giving away the first 10th of what we produce as a thank offering to God and as an act of charity to the poor. Christianity continued this practice and taught that love is the greatest good to aspire to — love without conditions, without strings. Out of these traditions came the monastic way of life where poverty was willingly embraced as a way of holding back nothing from God and taking sides with the poor rather than the powerful.

Islam, too, teaches the spiritual responsibility of giving, with almsgiving to the poor and liberation of slaves and prisoners as one of its five Pillars of the Faith. And in the Hindu religion, bhakta yoga is not the popularly known yoga of physical exercises, but the yoga or pathway of love — the practice of acting lovingly in all things as a way that leads to God.

In a country as wealthy as Canada (and we are unbelievably wealthy by global standards, even with our worries about the deficit and a recession), to give generously, often and without strings is vital to our spiritual well-being. Giving is to the soul what physical exercise is to the body; without it, we become flabby, complacent, self-satisfied. We lose sight of the ground, obscured by a potbelly, and forget that in this world of plenty, far too much is in the hands of far too few.

Giving, in the end, is not so much about generosity about the justice and gratitude. When we give, and especially when we give to the undeserving, to those who can give nothing back in return, we are rebalancing scales that tipped too far to our side. And when we give from a sense of gratitude rather than pity, we are a little more humble.

An athlete at the Special Olympics, a man considered mentally handicapped by society's norms, won a gold medal in his event. He was jubilant, but noticed the sadness on the face of his friend, who had won no such honor. Taking the medal off, he ran over to his friend and simply gave it away to him — not from pity or for thanks, but for the sheer joy of it. Both were radiantly joyful, one for the gift and one for the joy of giving.

Rev. Lucy Reid is an ecumenical minister in U of G's Campus Ministry.



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VISUAL ARTIST MAKES STRONG SHOWING

Toronto arts foundation honors fine art professor for the impact of her work on Canadian culture

BY MARK MCCUTCHEON

AUTHORITY IS AN ATTRIBUTE is the title of two of the many art shows that fine art professor Suzy Lake has exhibited during her 20-year career, so it's only fitting that her own authority as an artist was honored last month by the Arts Foundation of Greater Toronto. A jury of artists, critics and curators chose Lake as this year's recipient of the foundation's Visual Art Award in recognition of the impact her career has had on Canadian culture.

Lake says she's honored to receive the award, especially because it's not a competition. And, because of her active interest in emerging artists, she's pleased that the award includes a cash prize to commission a work by a promising artist of her choice.

She's also pleased about the attention the foundation's awards bring to the arts. "The Toronto Arts Awards, being televised, being so public, direct a vital attention to the arts," she says. "The 12 years in which the arts foundation has sponsored these awards have seen an economic downturn where museum budgets and tax incentives to purchase art are cut. So as a member of the arts community, I'm grateful that they're putting the arts in such a celebratory position. The value of art making is easily overlooked by the general public and threatened by the current political climate."

Toronto filmmaker Rina Fraticelli, who created a short film on Lake that was presented at the awards ceremony, says she was "thrilled" when the arts foundation asked her to do the profile. "I've been an admirer of Lake's work for years," says Fraticelli. "Her work is so complex, so beautiful. I found in the course of doing the film that there was so much more than I could deal with in three minutes, and so I'm in the process of developing a longer film on her as a result." Although the longer film is not expected to appear until next year, the short film is regularly aired on the Bravo! arts channel.

It is widely held that Lake's work over the past 20 years has expanded the vocabulary of contemporary art. It's been called conceptual, camera and body art, demonstrating her consistently multidisciplinary or interdisciplinary approach to subjects. Frequently synchronized with elements of music, dance and text, her aggressive use of the camera makes her art more performance than photographic.

Her 1973 work *A One-Hour (Zero) Conversation with Allan B.*, for example, is a series of photographs of Lake wearing white-face makeup ("in mime, when you use whiteface, it reduces you to zero," she explains) while conversing with the off-camera Allan



B. Lake then showed the series to friends and relations, who were asked to choose which images were most characteristic of her. She then circled their selections in felt pen, in effect creating a collaborative work between artist and audience.

In the 1976 work *Choreographed Puppet (Who Pulls the Strings)*, Lake built an eight- by 12-foot stage, inside which she was attached to strings manipulated by puppeteers atop the stage. The photographs that narrate the event convey an experience that appears alternately distressing and pleasurable. Lake says the work was an attempt to visualize what it's like to maintain control against all odds.

Originally from Detroit, Lake came to Canada in 1968, settling in Montreal. Drawing on the formal schooling she had received in the States, she began to investigate the subjects of identity, authority and the body, which would dominate her oeuvre. In 1971, she and a number of other artists founded the *Véhicule Art* co-operative space. "Being artists coming out of the '60s, we were establishing a vocabulary. When work is new, there aren't role models — you look to each other for affirmation and support."

During the '70s, Lake also taught at the Montreal Museum School of Art and Design and Concordia University, earned an MFA from Concordia, then began her first sessional appointment at Guelph in 1978. She continued to do sessional work at

Guelph, as well as at the Ontario College of Art, until 1988, when she joined U of G as an associate professor.

At galleries from Montreal to Vancouver, Lake has had numerous exhibitions — both group and solo — as well as performances. In 1993, she staged a major retrospective show, *Suzy Lake: Point of Reference*, at the Canadian Museum of Contemporary Photography in Ottawa, as well as an exhibition called *Corpus I* at the Mendel Gallery in Saskatoon.

Most recently, she wrapped up a touring solo show of new work and is currently planning for an arts festival trip to Taiwan in 1998.

Lake notes that her art, being so interdisciplinary, is influenced by a wide range of cultural phenomena — from Martin Scorsese's *Taxi Driver* to the national economy.

"The economy may be imposed on me, but it's a tool that I work with, a tool that becomes part of the subject. Or things like the cloning of the sheep, in Scotland: what does that mean now, to the body, to mortality?"

This kind of conceptualism characterized Lake's ground-breaking collaborations with the Teme-Augama Anishnabai in 1991 at the height of the controversy over cultural appropriation. Her exhibition *Authority Is an Attribute . . . Part II* turned each gallery where it appeared into a forum for Teme-Augama band members to articulate their plight.

"My work was really the context of a political dynamic that we all face. I was exhilarated that the work left the arena of high art and became an effective tool for change." With this work and similar projects, like the *Artica* group's role in revolutionary Nicaragua, Lake has continued to expand art's vocabulary even further — to include political activism itself.

Lake's interdisciplinary focus extends from art practice to pedagogy. She often brings methods and guests from other fields into her classroom. Prof. Patrick Holland, English, is one such guest.

"What's fascinating about Lake is that she's really lived the history of conceptual and post-conceptual photography in Canada," says Holland. "She shows an incredible sensitivity to the textual dimension of art photography."

Students in Guelph's fine art program have long recognized the experience behind Lake's teaching methods. Dionne Powlenzuk, president of the students' Fine Art Network, calls Lake "a treasure to the department. No other regional fine art program . . . can boast anyone of her stature."

Gilmor Awards Honor Two

OAC, engineering students recognized for leadership, commitment to betterment of student life

STUDENTS Carolyn Barkey and Jeffray Whitty are this year's recipients of the R. P. Gilmor Student Life Awards, which recognize contributions to the betterment of student life at U of G. The two were honored at a ceremony Nov. 28 at the President's House.

Barkey, an OAC '98 student, was cited for her commitment to representing her program and peers in the OAC Student Federation and for her leadership in strengthening communications between OAC and the Central Student Association while serving as president of the federation last year.

She continues to promote the needs of students and encourage student/faculty interaction as chair of Student Senate Caucus.

"It is very gratifying that the people I work with in student groups at the University feel that my contributions warrant recognition of this kind," says Barkey. "I have enjoyed everything I have taken part in at the University of Guelph, from student government to Senate, and would do it over again if I started tomorrow."

Whitty is an undergraduate engineering student currently working as senior orientation manager for the Office of First-Year Studies.

He was cited for his enthusiasm and initiative, for his participation in programs such as START, Campus Days and Engineering Night, and for his ability to catalyze students and staff to increase their involvement in campus life. He has represented students on Senate and is currently vice-

president (external) of the Engineering Society.

For Whitty, "receiving the Gilmor Award means more to me than getting my undergraduate degree. It sounds funny, I suppose, but it really makes me happy to know that this university recognizes involvement between campus and community in such a celebratory way."

Whitty says he appreciates the efforts of everyone who supported his nomination and adds: "It's the people I've met here at my time in Guelph that gets me excited about each semester."

Presented this year for the 10th time, the R.P. Gilmor Awards were established in honor of Paul Gilmor, U of G's provost and director of student services from 1967 to 1987.



Former U of G provost Paul Gilmor, right, congratulates the winners of this year's R.P. Gilmor Student Life Awards, Jeffray Whitty and Carolyn Barkey.

PHOTO BY MARTIN SCHWALBE

United Way Appeal Draws to a Close

Campus campaign is 93 per cent there, U of G retirees lead in total number of donors

THE UNITED WAY campus campaign has reached 93 per cent of its 1997 goal with \$173,910 in total donations.

"We're grateful for the support and optimistic that we will reach our goal," says Nancy Sullivan, vice-president (finance and administration).

The campaign ends this week, with all donors eligible to win a grand prize of a one-week Caribbean holiday for two — valued at \$2,300. The Dominican Republic holiday, sponsored by Guelph-based Golding Travel and Sunlight Holidays, will be drawn Dec. 8 at the United Way volunteer appreciation event. More than 120 incentive prizes donated by campus departments and local businesses have already been given away. Winners of the Nov. 5 and 19 draws are listed below.

U of G is the largest source of United Way donations in the city of Guelph. The Guelph-Wellington campaign reported a total of \$1.06 million — 67 per cent of its goal — Nov. 24. It runs until Dec. 31.

Leading the U of G campaign in total number of donors to the United Way appeal are retirees, with 214 people contributing to exceed the retiree goal of \$25,000. Other groups on campus that have already exceeded their goals are CBS, FACS and employees in the University Centre executive offices.

NOV. 5 WINNERS:

- A mug donated by Laura Taylor Pottery — John Bligh, retiree
- Coffee beans, The Flour Barrel — Leon Yaskovich, retiree
- \$5 gift certificate, Swan Bath and Kitchen — Margaret Jackson, retiree
- \$5 off an order, Blue Lagoon Ice Cream and Soda Shop — Jeannette Davidson, Library

- Gift certificate, Beauty Secrets — Blair MacNeill, retiree
- Four-kilogram bag of dog food, Kortright Animal Hospital — Alan McKeown, Horticultural Research Institute of Ontario
- \$5 gift certificate, Zehrs/Hartsland Market Square — Trevor Smith, Animal and Poultry Science
- \$10 gift certificate, Lites — Marjorie White, retiree
- Coupon, Broadway Bagel — Jonathan Lamarre, Biomedical Sciences
- Disposable camera, One-Hour Motophoto — Toni Pellizzari, CBS dean's office
- Academic year diary, Grand & Toy — Elspeth Newton, retiree
- CD, HMV — Wendy Dempsey, Chemistry and Biochemistry
- \$10, Mr. Kiwiftuit — Judith Delmor, Counselling and Student Resource Centre
- Van Gogh poster, Art Services — Carol Lohuis, Continuing Education
- Bagels and cream cheese, Bagel Schmagel Cafe — Thomas Burgess, retiree
- Gift certificate, Latino's Restaurant — Kaye Barrett, CSRC
- Book, Traditional Homeopathy — Barry Millman, retiree
- \$20 gift certificate, The Pinata — Marvin Tung, Food Science
- Forty-pound bag of dog food, Animal-Care Services — Irene Willoughby, Veterinary Teaching Hospital
- Free enrolment in a continuing education certificate course, Office of Open Learning — Linda DaMaren, Library
- Five-pound box of sausage, Rowe Farm Meats — Alan Wildeman, Molecular Biology and Genetics, and Marisa Phillips, Liaison Office
- Dessert, Lillian Wilson, Human

- Resources — William Milne, Teaching Support Services
- Canadian Wine, Brenda Whiteside, Senate Office — Kathleen Harris, retiree
- Newspaper subscription, Guelph Mercury — Carmalett Chilton, retiree
- Fifty pounds of potatoes, Rick McGraw, Department of Environmental Biology — Eric Poisson, Physics
- Pizza, Hospitality Services — Leslie Copp, Food Science, and Joan Cascio, Rural Planning and Development
- Coffee mug and card, Hospitality Services — Brenda Reynolds, Continuing Education
- U of G baseball hat, Hospitality Services — Joel Jobin, OMAFRA Lab Regulatory Services
- Free scanning, Computing and Communications Services — John Melicherick, OMAFRA Lab Regulatory Services
- \$10 laser printing card, CCS — Peter Jaspers-Fayer, CCS, Bruce Holub, Human Biology and Nutritional Sciences
- CCS Alumni Service access, CCS — Karen Maki, Open Learning
- Sports bag, Anixter (John Kelly), Telecommunications — Linda Packe, HRIO
- Christmas wall quilt, Liz Honegger, U of G Retirees' Association — Margaret Henshall, Library
- Harmonica, Guelph Music — Dawn Scott, OMAFRA Laboratory Services
- Bottle of wine, David Knight, College of Social Science — John Powell, retiree

NOV. 19 WINNERS:

- Business cards, Kinko's — Don Richardson, Rural Extension Studies
- Movie rentals, Thomas Entertainment

- ment — Tracey Baute, Environmental Biology
- \$5 gift certificate, Swan Bath and Kitchen Centre — John Powell, retiree
- Movie rental, Blockbuster Video — E. Morissette
- Haircut and blow dry, Tangles Hair Design — Karen Samis, Crop Science
- \$10 gift certificate, Merals Crafts — Alan McKeown, HRIO
- \$5 gift certificate, Zehrs — Judith Stewart, OMAFRA Animal Health
- Haircut, Hair Razors — Dale Lockie, Pension Investment
- \$12 gift certificate, Vince's Men's Hairstyling — Heather Patterson
- Movie rentals, Rogers Video — David Beattie, OAC dean's office
- Picture frame, Business Depot — Heather Renwick, OAC dean's office
- \$10 gift certificate, Trade Secrets — Jim Taylor, Landscape Architecture
- CD, HMV — Joanne Waechter, Molecular Biology
- Amber Earrings, Baba Yaga — Brenda Whiteside, Senate Office
- \$10 gift certificate, Friends in our Kitchen — Dawn Scott, OMAFRA Lab Services
- \$30 gift certificate, Stelle — John Bligh, retiree
- Gift certificate, Bianchi's Hair Design — Thanasis Stengos, Economics
- Gift certificate, SuperCow Ice Cream — Rotimi Alako, Food Science
- Coupon, New Orleans Pizza — Wenyin Yu, Crop Science
- \$15 gift certificate, Stone Store Natural — Barry Smit, Geography
- Regular annual commuting permit, Security Services/Parking — Peggy Coghlan, School of Engineering
- Five-pound box of sausage, Rowe Farm Meats — Denis Lynn, Zoology, and Kaye Barrett, CSRC
- \$20 gift certificate, Campus Estates

- Hairstyling — Sheena Bamsey, OVC
- Bottle of wine, Shelly Birnie-Lefcovitch, Office of First-Year Studies — Maria DeAngelis, House-keeping
- Honey package, Pearl Milne, Library — John Gilmour, retiree
- Newspaper subscription, Guelph Mercury — Dan Yarmey, Psychology
- Fifty pounds of potatoes, Rick McGraw, Environmental Biology — Judy Rhodes, OVC
- Pizza, Hospitality Services — Shahnaz Nagi, Development and Public Affairs, Clarence Dearing, retiree
- Coffee mug and card, Hospitality Services — Marjorie Spicer, retiree
- T-shirt, Hospitality Services — Jacqueline Poisson, Land Resource Science
- \$10 color printing, CCS — Jack Weiner, Mathematics and Statistics
- \$10 laser printing card, CCS — Blair MacNeill, retiree, and Susan Feryn-Perkin, Arboretum
- T-shirt, SPARK office — Simon Lachance, Environmental Biology, and John Goddard, Chemistry and Biochemistry
- Parker Pen, Norstan Canada — Nancy Bligh, retiree
- Lamb roast, John Burton, Animal and Poultry Science — Barry Millman, retiree
- Gift certificate, Beauty Secret — Bruce Mack
- Academic year diary, Grand & Toy — Frank Burkhard, Electrical Shop
- Homemade maple syrup, Jeff Schieck, Office of Research — Mary John, Student Housing
- Videotape, Independent Study/ OAC ACCESS — John Benson, Economics
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We Need That Convocation Feeling!

Contributions to Campus Fund add up to big investment in students

REMEMBER HOW IT FEELS TO watch new University of Guelph graduates receive their degrees at convocation?

Whether you had the privilege of teaching those students, served them a meal at Centre Six or processed some of the mountain of paperwork that got them from applicants to graduates, you can feel the pride of accomplishment — theirs and yours.

That's the feeling we need to capture to make this year's Campus Fund a success, says registrar Chuck Cunningham, who is a volunteer for the 1997 fund-raising campaign and a regular at U of G convocation ceremonies.

"Sometimes the stresses of our daily work can obscure the real purpose of our jobs," says Cunningham. "It's also easy to forget that it takes all of our effort together to cultivate minds and create opportunities for the future."

By the same token, our individual contributions to the Campus Fund add up to a big investment in

our students, he says. "The real purpose of our giving is to provide the best education we can for each year's new applicants to U of G."

This year's Campus Fund priority is to complete a two-year commitment to new multimedia labs in the U of G Library. Providing access to new technologies is crucial to the University's mandate of preparing its graduates for the demands of a competitive global marketplace.

The fund still needs \$20,000 to equal 1996 on-campus giving. Gifts to the Campus Fund can be pledged through payroll deduction or delivered directly to Development and Public Affairs in Alumni House. To qualify for a 1997 tax receipt, cheques must be dated by Dec. 31.

If you need more information about the Campus Fund, call Ext. 2122.

If you need a morale boost during the dark days of December, or a reason to support the Campus Fund, the registrar suggests you take a minute and try to bring back that convocation feeling.

Students Pitch in at Food Bank

HABA course brings international issues of hunger closer to home

STUDENTS EXPLORING international issues of hunger at HABA this semester had a chance to gain some local insights as well. Students in the course "Cultural Aspects of Food" had the option of writing a midterm or writing a reflective journal about volunteering at the Guelph Food Bank. Only three of the 90 students wrote the midterm.

"Volunteering is a learning experience that students will remember for a long time, and it benefits everyone — the University, the food bank and the students," says lecturer Alison Dorr, who teaches the course to HABA and nutrition students.

Dorr developed the volunteer option to enhance the course's component on hunger and give students an alternative learning experience. Students choosing the volunteer option were graded on a written journal about their experiences and expectations. At the Guelph Food Bank, each student was required to volunteer three hours of time by assembling food baskets and organizing donations. By the end of the term, U of G students in the course had donated more than 200 hours of volunteer work.

Third-year HABA student Jen Wells says that volunteering at the Guelph Food Bank opened her eyes to aspects of life she wasn't aware of.

"I didn't know there were so

many people in Guelph who rely on it," she says. "The people at the Food Bank work so hard and give so much of their time and effort."

The volunteer experience made second-year HABA student Alexis Edghill realize how big the world is beyond the campus. As ombudsman for Hospitality Services, Edghill is now working to improve links with the Guelph Food Bank by expanding the on-campus Christmas food drive.

"As a student community, we don't give as much as we should to the Guelph community," she says. "I was grateful to have met the dynamic individuals who work at the Guelph Food Bank. Everyone who walks through the door is counselled and accepted."

Each month, the Food Bank provides direct services to about 1,000 people, almost half of whom are under 18. The Food Bank is entirely community-supported and logs more than 50,000 volunteer hours each year.

"It was a very positive experience having the students work with us," says Guelph Food Bank co-ordinator Darlene Ruiter. "We depend on a small army of volunteers on a regular and temporary basis to meet our needs."

Many of the student volunteers have indicated they would like to volunteer again, and Dorr is interested



Students Alexis Edghill, standing, and Jennifer Wells, who helped organize a food drive on campus with Hospitality Services, are hoping to fill this bin in Centre Six with non-perishable food donations for the Guelph Food Bank. In addition to Centre Six, bins are located in the Landscape Architecture pit, East Side Variety and the FACS lounge.

PHOTO BY MARTIN SCHWALBE

in expanding the volunteer option to include other agencies.

It's valuable for students to learn about the effects of hunger in their own communities, she says. The course component on hunger deals primarily with international issues.

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RESEARCH

Hiram Walker & Sons Ltd. (CanAdapt) awarded \$190,900 to Prof. Trevor Smith, Animal and Poultry Science, for "Using Distillers' Grain Byproducts to Allow the Feeding of Raw Legumes to Pigs."

The Semex Alliance by its general partner Semex Canada Inc. awarded \$150,000 to Prof. John Pollard, Population Medicine, for "Developing and Expanding Productivity in the Canadian Artificial Insemination Industry: Commercialization of In Vitro Embryo Technology."

The Social Sciences and Humanities Research Council awarded \$18,500 to Prof. Doug Killam, English, for "A Companion to African Literature in English."

Prof. Yoshinoro Mine, Food Science, received \$10,000 from the Ontario Egg Producers Marketing Board for "Production of Egg Yolk Immunoglobulin Against Bovine Rotavirus."

The Ontario Federation of Agriculture (Grow Ontario) awarded \$50,000 to Prof. Clarence Swanton, Crop Science, to study "Implications from ISO 14000 for Ontario Agriculture."

Prof. Bryan McKersie, Crop Science, was awarded \$176,000 by the Ontario Forage Council for "Improvement of Winter Hardiness and Feeding Quality in Alfalfa Using Biotechnology."

The Regional Municipality of Hamilton-Wentworth awarded \$6,400 to Prof. Stephanie Ounpuu, Family Studies, for the project "Validation of Smoking Policy Inventory."

Ontario Pork has provided \$30,000 to Prof. John Phillips, Molecular Biology and Genetics, for his work on "Increased Pork Quality, Stress Tolerance and Reproductive Performance of Pigs with Enhanced Superoxide Dismutase Activity."

Ontario Pork also awarded Roger Hacker, Animal and Poultry Science, \$9,320 for "Enhancing Reproductive Performance in Sows With Postpartum Prostaglandin F₂(PGF₂) Therapy" and \$11,420 for "Increasing Ovulation Rate in Prepubertal Gilts via Active Immunization Against an Ovarian Steroid Androstenedione."

Prof. Herman Boermans, Biomedical Sciences, received \$3,375 from Environment Canada for "Immuno Testing of 400 Fish."

The Ontario Sheep Marketing Agency has provided:

- \$256,000 to Prof. Brian Buckrell, Population Medicine, for an "Ontario Lamb Improvement Breeding Strategy: Reproduction";
- \$56,700 to Prof. Paula Menzies, Population Medicine, for a "Sheep Flock Health Improvement Program"; and
- \$113,000 to Prof. Jim Wilton, Animal and Poultry Science, for an "Ontario Lamb Improvement Breeding Strategy Genetic Improvement and Carcass Evaluation."

The Ontario Thoracic Society awarded \$17,000 to Prof. George Haraux, Molecular Biology and Genetics, for the project "Structure of Surfactant Protein SP-A and Its Role in Tubular Myelin Formation."

Prof. Iain Campbell, Physics, received \$10,000 from Fisheries and Oceans for "Micro-PIXE Analysis of Arctic Char Otoliths" and \$15,000 from Environment Canada for "PIXE Analytical Services."

OVC's Pet Trust has awarded \$6,500 to Prof. Howard Dobson, Clinical Studies, for "Magnetic Resonance Imaging of Spinal Disease in the Dog" and \$2,500 to Prof. Doris Dyson, Clinical Studies, for "Computer Storage of Anesthetic Records to Provide Information on Complication and Mortality Incidence and Relationship."

Prof. David Josephy, Chemistry and Biochemistry, received \$18,000 from the Canadian Breast Cancer Foundation to study "Mammary Carcinogens in Human Milk."

The Environmental Capacity Enhancement Project has provided the following support:

- \$14,833 to Prof. Parokh Afshar, University School of Rural Planning and Development, for a project titled "Participatory Management in Sustainable Agriculture Development Projects";
- \$11,891 to Prof. Don Richardson, Rural Extension Studies, for his work on "Traditional Folk Methods of Communication for Effective Dialogue to Foster Social and Environmental Awareness";
- \$15,000 to Prof. Nonita Yap, USRP&D, for "Firm Level Decision Making and Criteria for Technology Choice with Relevance to Waste Management: Caste Studies in Zimbabwean Industry"; and
- \$18,000 to Prof. Robert Brown, Landscape Architecture, for the pro-

ject "Towards Establishing Protected Areas: The Use of Community Participation in Establishing Life History Requirements of Mozambique's Olive-Headed Weaver."

International Stock Food Company Limited (CanAdapt) awarded \$5,358 to Dennis McNight of Kemptville College to study the "Effect of Silo Guard on Preservation of Corn Silage."

Profs. Peter Pauls and Ken Kasha, Crop Science, were awarded \$106,000 by the Ontario Corn Producers' Association (CanAdapt) for the project "Fusarium Resistance and Genetic Improvement in Ontario Corn Through Biotechnology."

Environment Canada — NWRI awarded \$24,980 to Prof. Dave Swayne, Computing and Information Science, for "Advancement in Expert Decision Support for Watershed and Basin Assessment."

Environment Canada also awarded \$7,650 to Prof. Glenn Van Der Kraak, Zoology, for "Histology Processing in Connection with Fish Samples."

Prof. Tony Hunt, Crop Science, received \$8,625 from Growth Stage Consulting Inc. "To Develop a Computer Model for Use in the Prediction of Appropriate Times for Crop Input Applications for Soya Beans."

Agriculture and Agri-Food Canada awarded \$97,000 to Ken McEwan of Ridgetown College for the "Development and Maintenance of a Database of Ontario Farm Financial Information: Task #1."

Prof. Mansel Griffiths, Food Science, was awarded \$34,700 by Canadian Inovatech for the project "Antimicrobial Combination for Improved Lysozyme Effectiveness (Super Lysozyme): Effect of Super Lysozyme Treatment on Quality and Safety of Cheese."

AgrEvo Canada Inc. awarded \$13,635 to Prof. Dave Hume, Crop Science, for "Field Testing of Transgenic Spring Canola."

The Agriculture and Environmental Renewal Canada, Inc. (AERC) and Grow Ontario awarded \$16,289 to Paul Sharpe of Kemptville College for "An Evaluation of the Feeding Value of Pearl Millet Hybrids Developed by AERC."

The Ministry of Natural Resources awarded \$76,800 to Prof. Young Cho, Animal Science and Nutrition, for his work on fish nutrition.

The Heart and Stroke Foundation of Ontario awarded \$3,500 in the form of the "John D. Schultz Student Scholarship 1997" to Eddie Chan, sponsored by Prof. Bruce Holub, Human Biology and Nutritional Sciences.

Prof. Wayne Howard, Agricultural Economics and Business, was awarded \$40,000 by the Ontario Cattlemen's Association for "Technology

Transfer and Adoption by Ontario Cattlemen."

The Ontario Corn Producers' Association provided \$8,000 to Prof. François Tardif, Crop Science, for a "Spatially Variable Spraying System for Precision Weed Control" and \$20,000 to Prof. Mike Goss, Land Resource Science, for an "Evaluation of Improved Tests for the Availability of N to Corn from Soil and Animal Manures." Goss also received \$80,000 from the Ontario Federation of Agriculture for the project "Partners in Nitrogen Use Efficiency."

GRAD NEWS

The final examination of PhD candidate Julie Patenaude, Psychology, is Dec. 8 at 10 a.m. in MacKinnon 020. The thesis is "Does a Continually Changing Work Environment Lead to Emotional Exhaustion? A Test of a Theory." The adviser is Prof. Steven Cronshaw.

The final examination of Christopher Henschel, an M.Sc. candidate in the Department of Zoology, is Dec. 10 at 9 a.m. in Axelrod 265A. The thesis is "Using Null Models to Test for Effects of Habitat Fragmentation on Species Richness of Forest Songbirds." The adviser is Prof. Tom Nudds.

The final examination of Sbeila Marshall, a PhD candidate in the Department of Family Studies, is Dec. 11 at 1 p.m. in the Couple and Family Therapy Centre. Her thesis is "Mattering Attitudes: Validating the Construct." The adviser is Prof. Gerald Adams.

The final examination of M.Sc. candidate Heather Hager, Zoology, is Dec. 12 at 9 a.m. in Axelrod 265A. The thesis is "Conservation of Species Diversity: Are All Umbrella Species Equal?" The adviser is Prof. Tom Nudds.

The final examination of PhD candidate Angela Pebraro, Psychology, is Dec. 12 at 2 p.m. in MacKinnon 132. The thesis is "Gender, Mentoring and Research Practices: Social Psychologists Trained at the University of Michigan, 1949-1974." The adviser is Prof. Ian Lubek.

The final examination of Xianqiang Zhang, a PhD candidate in the Department of Economics, is Dec. 15 at 10 a.m. in MacKinnon 309. The thesis is "An Application and Test of Hotelling's Rule: The Case of Old-Growth Forest." The adviser is Prof. John Livernois.

The final examination of Stephen Haller, a PhD candidate in the Department of Philosophy, is Dec. 17 at 2 p.m. in MacKinnon 132. The thesis is "Apocalypse Soon? Wagering on Warnings of Global Catastrophe." The adviser is Prof. Michael Ruse.

The final examination of M.Sc. candidate Cam MacDonald, Zoology, is Dec. 17 at 2 p.m. in Axelrod 259. The thesis is "Reproductive Success, Mating Strategies and Long-Term Population Trends in the Bullfrog, *Rana catesbeiana*." The adviser is Prof. Robert Brooks.

The final examination of PhD candidate Ali Naemi, University School of Rural Planning and Development, is Dec. 17 at 2 p.m. in Landscape Architecture 125. The thesis is "The Gradual Change in Approach to Development in Response to Third World Realities and Environmental Problems: Towards Sustainable Community Development." The adviser is Prof. Farokh Afshar.

The final examination of Xun Zuo, a PhD candidate in the Department of Zoology, is Dec. 19 at 2 p.m. in Axelrod 259. The thesis is "Proteases in the Haemoflagellate *Cryptobia salmositica* and Their Roles in Salmonid Cryptobiosis." The adviser is Prof. Patrick Woo.

The final examination of PhD candidate David Castle, Philosophy, is Dec. 19 at 3 p.m. in MacKinnon 132. The thesis is "Three Applications of the Semantic Conception of Theories to Problems in Ecology." The adviser is Prof. Michael Ruse.

Interested members of the University community are invited to attend.

Research program calls for proposals

THE U OF G/ONTARIO Ministry of Agriculture, Food and Rural Affairs (OMAFRA) research program invites submissions for new research proposals from faculty. Proposals are especially encouraged from faculty who have not participated in the U of G/OMAFRA agreement in the past.

Proposals must address program goals approved by

the Agricultural Research Institute of Ontario and must be submitted in a specific format. For information, check out the U of G Web site at http://www.uoguelph.ca/research/omafra/research_prog/new Index2.html or call the director of agri-food research programs at 826-3809.

It should be noted that there is no budget available to fund new proposals in the food program this year.

CLASSIFIEDS

FOR SALE

Two pairs of women's skates, size 8, one pair in new condition, 824-7969 after 5:30 pm.

South-end townhouse, rare Stanford model, largest of the two-storey condos, three bedrooms, maple hardwood floors on main level, mature trees overlooking extra wide lot, close to University, shopping, schools, parks and buses, access to recreation centre and pool, 836-0148. See photo, details and floor plans at <http://www.annex-multimedia.com/302/>.

Guinea pig/rabbit cage and accessories, Ext. 3272 or 823-9751.

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Ron Parker, 836-8094 after 5 p.m. or agoulet@uoguelph.ca.

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WANTED

Convocation tickets for 10 a.m. ceremony Feb. 19, Kristin, 822-3271.

AVAILABLE

Typing and dictaphoning essays, papers, etc., 837-9438 after 5 p.m.

FOR RENT

Newer three-bedroom detached house in south end, five minutes from University, available for short-term lease from Jan. 1.

Large one-bedroom apartment in new house in Fergus, own entrance, bay windows, sliding doors to backyard, \$525 a month, including heat and hydro, 843-7320 after 5 p.m.

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LETTERS

WHAT HAS HAPPENED TO UNIVERSITY AS PLACE OF RESEARCH?

Under the ironic headline "Good Research Makes Good News," the latest fulminations of Natural Sciences and Engineering Research Council (NSERC) president Tom Brzustowski were published as a letter in *At Guelph* Nov. 5.

Brzustowski celebrates a growing success story in which researchers across Canada are at the leading edge of service to the corporate imperative of technology, profit and sales. As he rapturously reports such stirring advances in research for the benefit of Canadians as "the magic threshold of 250 sales that makes it (a Bombardier private jet) a money maker," we may wonder what has happened to the

university as a place of research for deeper understanding or the public interest.

The sad truth is that the university is being rapidly converted into a slavish service function of corporate money making, and the heads of our research institutions seem increasingly anxious to serve the new order as their god.

The NSERC president's rise to leadership of Canada's higher research sector was not easily won. He earned his spurs as a corporate standard-bearer in the public educational sector when, as Ontario's deputy minister of education, he declared the purpose of all public education in the province as follows (emphasis added):

"I contend that the one global object of education must be for a

greater capability of the people of Ontario to create wealth... (to) export products in which our knowledge and skills provide the value added... to develop new services which we can offer in trade in the world market." (Cited by William Graham in "From the President," *Ontario Confederation of Faculty Associations Bulletin*, 6:15 [1989].)

But a question arises. Where does all this fit in with the university's constitutional objectives? Are we witnessing a corporate coup d'état of our public education systems by a bureaucratic elite that no longer serves the academic mission, but first and foremost the interests of external commercial agents?

PROF. JOHN MCMURTRY
PHILOSOPHY

Turn on the Radio When Weather Is Bad

Decision to close the University is based on a combination of factors

UOF G RARELY closes down in bad weather, but when it does, your best source of information is the radio.

Stations in Guelph, Kitchener-Waterloo and Toronto are immediately notified if the president decides to shut U of G because of bad weather or an emergency.

If you try calling the campus switchboard, you'll probably find it jammed with other people trying to get through.

The president or a designate decides whether to close the University or restrict activities on the basis of a combination of factors, such as the amount of snow, the forecast and road conditions.

The decision is made on the advice of the executive director of

Facilities and Hospitality Services, who may consult with other Guelph schools, local police and transportation services and area weather information services.

Once the president decides to close the University, the executive director of Facilities and Hospitality Services advises Security Services and authorizes Communications and Public Affairs to initiate the closing procedures through the media by 7 a.m.

With the exception of essential services, a campus closing is firm and not left to the discretion of individuals or departments unless special arrangements are made with the president and Security Services. Essential services are Student Housing Services, Facilities and Hospitality Services,

Telecommunications Services/switchboard, Computing and Communications Services, Security Services, Student Health Services, the U of G Child-Care Centre, Research Station Operations, Animal-Care Services, the Veterinary Teaching Hospital and on-campus animal units.

If hazardous weather conditions become imminent during the working day, the executive director of Facilities and Hospitality Services provides the president with information about weather reports, road conditions and local bus service. If a decision is made to close the University, Communications and Public Affairs informs local radio stations and key units across campus, which, in turn, inform the rest of the University community.

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ARBORETUM

Naturalist Chris Earley leads a three-evening workshop on owls Jan. 13, 20 and 27 at 7 p.m. at the Arboretum. Cost is \$58. Registration and payment are required by Jan. 6. To register, call Ext. 4110.

The Arboretum Auxiliary holds its second annual Sugar Plum Fairy Craft Sale Dec. 7 from 11 a.m. to 4 p.m. Admission is free.

Theatre in the Trees presents *The Cemetery Club*, a comedy by Ivan Menchell, Dec. 5, 6, 12 and 20. Buffet opens at 6:30 p.m.; showtime is 8 p.m. Tickets are \$45. Call Ext. 4110 to reserve.

CONCERTS

The University Centre presents Leahy Dec. 11 at 8 p.m. at the River Run Centre. Tickets are \$27 and \$25. Call 763-3000.

Jane Siberry celebrates Christmas at a concert Dec. 16 at 8 p.m. at War Memorial Hall. Special guest is Deanna Kirk. Tickets are \$29 and are available at the UC box office.

CONFERENCE

The 17th annual Organic Agriculture Conference runs Jan. 30 and 31 on campus, featuring workshops, seminars, dinners, strategic group meetings and a trade show. Registration is \$35 before Jan. 6, \$45 after. Students pay \$10. A public forum and panel discussion on "The Agribusiness Challenge to Organic Agriculture" is slated for Jan. 30 at 7 p.m. in UC 103. Admission to the forum is a cash or food donation to the Guelph Food Bank. For more information, call the Ontario Ministry of Agriculture, Food and Rural Affairs at 519-473-6480 or Tomás Nimmo at 705-444-0380, or send e-mail to organix@georgian.net.

LECTURES

Third Age Learning — Guelph launches its 21st season of lectures for retired people Jan. 7 at the Arboretum. "The Pedigree of Ideas" is the theme of the morning series led by Prof. Fred Vaughan, Political Science. First up in the eight-lecture series is an overview of how the revolutions in philosophy and science in the 16th and 17th centuries laid the foundations of the modern era. The talk begins at 10 a.m. In the afternoon series, Gordon Green explores "Western Art Music," looking first at earliest music. His talk begins at 1:30 p.m. Each series is \$18.

MISCELLANEOUS

You can have your pet's photo taken with Santa Dec. 13 from noon to 4 p.m. at large-animal admissions at OVC. Free bandanas, treats and fridge-magnet picture frames for your pet will be available. Admission is \$5. This is a fund raiser for the annual veterinary students' symposium.

MEETING

The board of directors of the College of Biological Science Alumni Association will meet Dec. 10 at 7 p.m. at Alumni House. All students, alumni, faculty and staff are welcome to attend. For more information, call Rob Guthrie at 821-9249 or send e-mail to rguthrie@uoguelph.ca.

NOTICES

Nominations for the John Bell Award, which recognizes outstanding contributions to education at U of G, are due Dec. 31. The award is open to any current faculty member who has made outstanding contributions in course and curriculum design and who has shown educational leadership, and/or for whom there exists substantial evidence of contributions to the development of materials, procedures and ideas about university education. For more information about the nomination process, call the Senate Office at Ext. 6758.

The Queen Elizabeth Silver Jubilee Endowment Fund for Study in a Second Official Language Award Program provides support for young Canadians who wish to improve their proficiency in their second official language to pursue full-time studies at another university. Applications must be made through college deans. For more information, call Student Financial Services at Ext. 6032.

Fellowships are available for Canadians to study abroad to build their international competence and to further Canada's participation in the world economy into the new millennium. Applicants must have graduated from university in the last five years or be in the final year of a degree program. The fellowships are valued at \$10,000. Application forms are available from CCIF/CBIE, 220 Laurier Ave. W., Suite 1100, Ottawa K1P 1Z9, fax 613-237-1073. Application deadline is Feb. 16. For more information, visit the Centre for International Programs InfoCentre in Day Hall or visit the Web site <http://www.cbie.ca>.

The Guelph Historical Society sponsors an annual essay contest open to all residents of Guelph and area. This year's topic is "The Arts in Guelph." The deadline for submissions is March 3. For more information, call Marilyn Whiteley at 824-9345.

The 18th annual conference of the Society for Teaching and Learning in Higher Education runs June 24 to 27, 1998, at Mount Allison University in Sackville, N.B. This year's theme is "The Voices of Learning: Student and Teacher." Conference organizers welcome panels, short demonstrations of specific teaching tips, workshops and other interactive sessions on all topics related to communication between teachers and students in higher education. The deadline for submitting proposals is Jan. 23. For more information about the conference, visit the Web site <http://www.mta.ca/stlhe98/> or send e-mail to Bob Hawkes at stlhe98@mta.ca.

SEMINARS

The Department of Chemistry and Biochemistry presents Uta Klement of MPI für Metallforschung in Stuttgart, Germany, Dec. 5 at 1:30 p.m. in MacNaughton 222. The topic is "CdSe Sensor Arrays: TEM- Investigations and Auger-Depth Profiling."

Guest speaker in the Department of Biomedical Sciences's final graduate student seminar for the fall semester is Mussadin Kamaruddin. The topic is "The Role of Hsp70 in Bovine Fertilization." The talk begins at 12:30 p.m. in OVC 1642.

The Axelrod Institute of Ichthyology's "Loaves and Fishes" seminar series continues Dec. 9 with Becky Cudmore of the University of Toronto explaining "Exotic Fish Introductions in the Great Lakes." On Dec. 16, Bruce Morrison's topic is "Sea Lampreys Don't Like Crowds." The talks begin at 12:30 p.m. in Axelrod 168.

WORKSHOPS

Teaching Support Services (TSS) is offering two sessions this month in the Web development series for faculty interested in using the Web in their teaching. For those who feel overwhelmed by the vastness of the Web or concerned about the quality of information their students may find, TSS and the U of G Library are offering "Garbage or Gold Mine? Critically Evaluating Web Resources" Dec. 15 from 10 a.m. to noon. On Dec. 16 from 11 a.m. to 1 p.m., the

topic is "HTML... Looking Under the Hood." Led by TSS and Computing and Communications Services staff, this session is designed for faculty who want to learn enough HTML to fine-tune Web pages created with visual editors such as "Netscape" or "Frontpage." Basic Web creation experience is required. Both workshops will be held in the main-floor orientation room in the library. Advance registration is required; send e-mail registration to mnairn@uoguelph.ca. For more information, call Mary Nairn at Ext. 3571.

The Guelph Food Technology Centre is offering a wide range of technical training courses for the food industry in Toronto, Winnipeg and Halifax in January. Topics include "Food Plant Sanitation," "Getting Ready for HACCP: Prerequisites and GMPs" and "Hazard Analysis and Development of Your HACCP Plan." For more information, call Marlene Inglis at 767-5028.

WORSHIP

Roman Catholic Mass is celebrated Sundays at 10:10 a.m. in Thornbrough 100.

The Ecumenical Campus Ministry and Harcourt United Church offer non-denominational Sunday services weekly at 7 p.m. at Harcourt Church, 87 Dean Ave.

COMMUNITY EVENTS

The Guelph Women's Events Committee will hold a vigil Dec. 5 to remember the 14 women massacred in Montreal in 1989. It begins at 6:30 p.m. at the Community Centre in the Matrix Centre (corner of Woolwich and Eramosa). Everyone is welcome.

The AIDS Committee of Guelph and Wellington County is holding its third annual Trees of Life Campaign throughout December. For every \$15 donated, a light will shine on the Trees of Life in front of the Bank of Montreal in St. George's Square. The trees are sponsored by the Downtown Board of Management. The AIDS Committee has also launched a new telephone line for people with questions about HIV/AIDS. The number is 763-CALL (763-2255).

Guelph-Wellington Women in Crisis is holding a dinner and auction Dec. 11 at 6 p.m. at John McCrae Legion. Tickets are \$20 (\$10 donation receipt) and must be purchased in advance. A silent auction runs until 8 p.m., followed by a live auction at 8:30 p.m. For tickets or catalogue of auction items, call

836-1110. For more information, call Ext. 2078.

McCrae House hosts its annual evening Christmas carol Dec. 11 from 7 to 9 p.m. Following the carolling, refreshments will be available at the house.

The Rotary Club of Guelph's 1997/98 travel program continues Jan. 14 with a presentation on Alaska by Fran Reidelberger. The talk begins at 8 p.m. at E.L. Fox Auditorium. Tickets are \$5 at the door.

The Arkell Schoolhouse presents contralto Maureen Forrester and pianist David Warrack performing "Interpretations of a Life" Dec. 13 at 8 p.m. Tickets are \$40. "Going Baroque at Christmas" is the theme of a concert Dec. 20 at 8 p.m. featuring Borys Medicky on harpsichord and Trevor Ewert on baroque violin. Tickets are \$15. For reservations, call 763-7528.

The Elora Festival's annual festival of carols runs Dec. 16 at 5 and 7:30 p.m. and Dec. 7 at 7:30 p.m. at St. John's Church in Elora. Special guest conductor Dec. 16 is CBC radio host Howard Dyck. For ticket information, call 846-0331.

The Canadian Wildflower Society meets Dec. 17 at 7:30 p.m. at the Arboretum Centre. Members will present their favorite wildflower slides. Everyone is welcome.

Rockwood will hold its fifth annual Farmers' Santa Claus Parade of Lights Dec. 18, featuring area farmers on antique and modern tractors and equipment. Santa and Mrs. Claus will arrive on their Case IH 1680 combine. The parade starts at 7 p.m. on Main Street (County Road 27). Storm date is Dec. 19.

The Suzuki String School of Guelph will perform music in the holiday spirit Dec. 6 at 10:30 a.m. at Westwood United Church. Admission is free.

The Bookshelf's fall reading series continues with Jane Urquhart and Nino Ricci Dec. 8 at 7 p.m. in the Bookshelf Cinema. Admission is free. The series wraps up Dec. 10 with John Ralston Saul reading at 7 p.m. at Chalmers United Church. Tickets are \$2.

The Central Ontario Orchid Society will hold a Christmas party Dec. 15 at Rink in the Park on Seagram Drive in Waterloo. The potluck begins at 7 p.m. There will be a regular show table. For more information, call Ext. 4375.

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